SERV. 34315

3-MOTOR 3-HEAD TAPE DECK

RT-701

3-MOTOR 4-HEAD TAPE DECK

RT-707

<ART-254-0>

Additional

Service Manual

NOTE:

- This supplementary service manual includes only those sections relating to changes made in the improved models. All other section unaffected by the improvements are to be found in the original service manuals RT-701 <ART-231-0> and RT-707 <ART-232-0>.
- All improved models are marked by a "▲" sign in model name and number plate. The packaging reference number also includes a "V" Ref No. | V .
- The following table shows the serial numbers from which the improved models.

Model	Serial Number
RT-701/KU	3603301 ~
RT-701/KC	3400001 ~
RT-707/KU	3606301 ~
RT-707/KC	3400001 ~
RT-707/D	9301201 ~
RT-707/DG	9301001 ~
RT-707/HG	8400001 ~

PIONEER®

3

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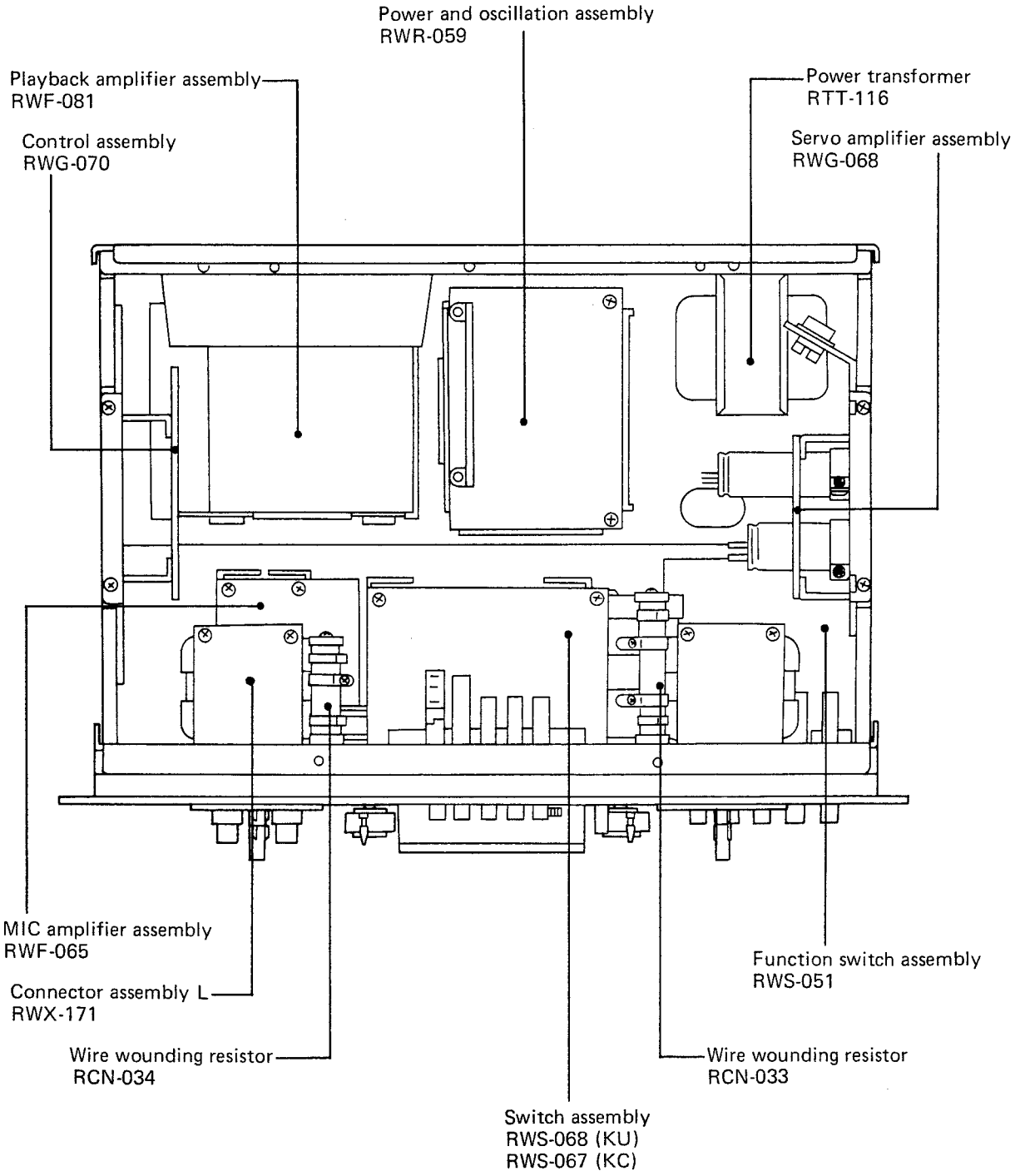
NOTE:

- This leaflet also provides RT-707/KCU and RT-707/HG. See page 65 for RT-707/KCU and page 121 for RT-707/HG.

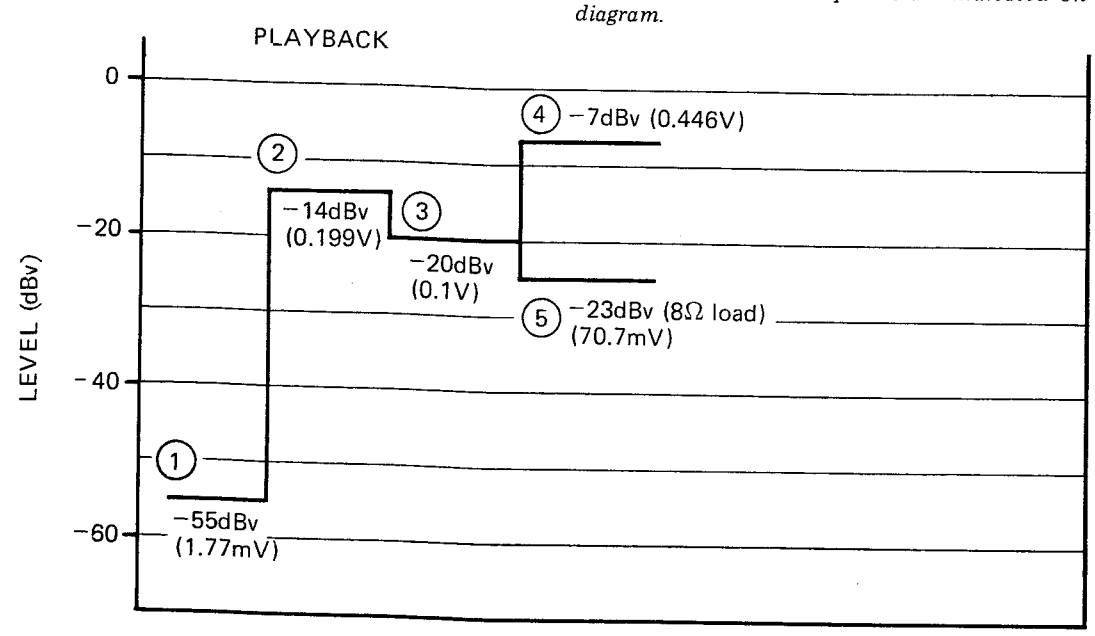
1. PARTS LOCATION

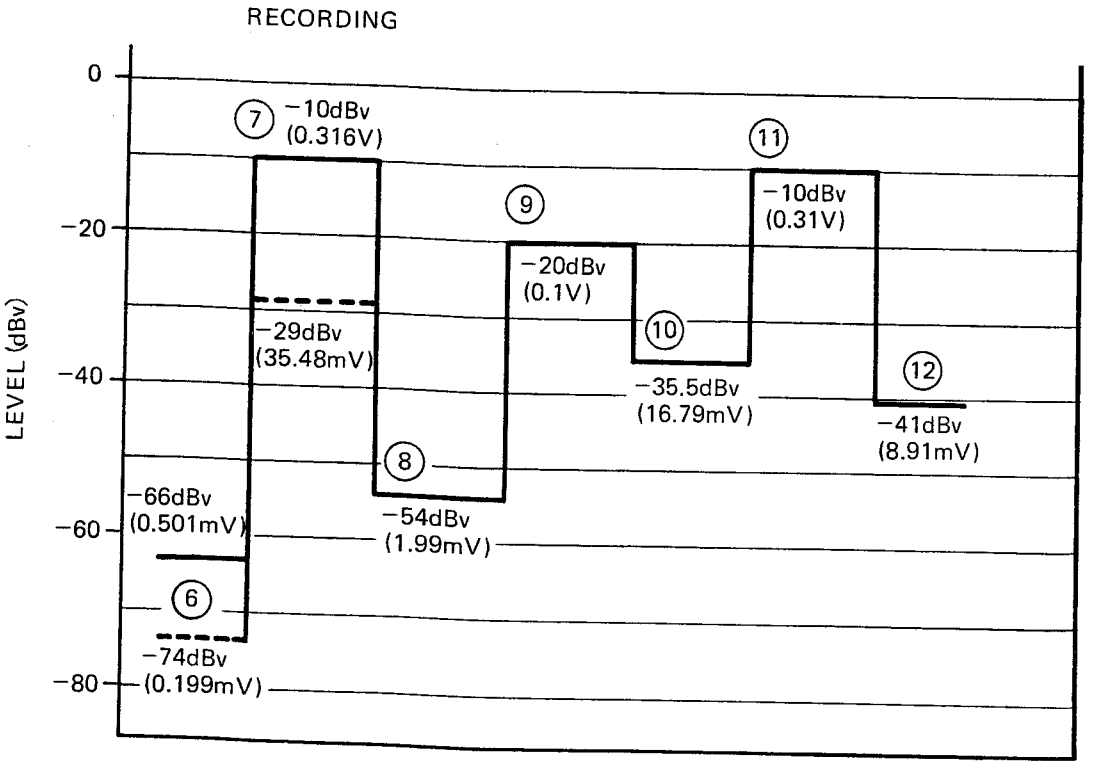
Top view with bonnet removed



2. LEVEL DIAGRAM

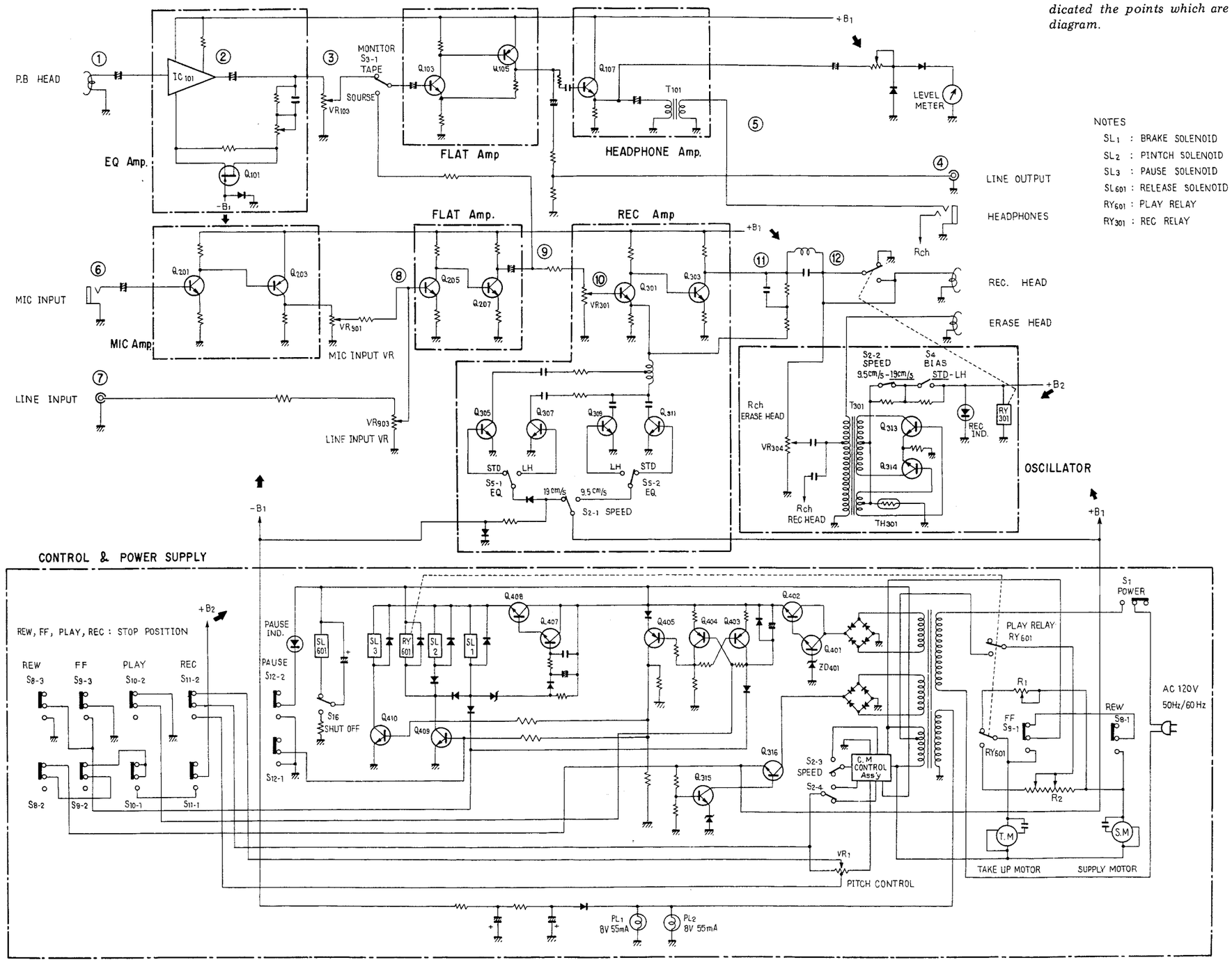
NOTES:
0dBv = 1V
Frequency: 1kHz
The level measurement points are indicated on the block diagram.





3. BLOCK DIAGRAM

NOTE:
The number which are circled in the block diagram indicated the points which are to be measured in the level diagram.



NOTES
- SL_1 : BRAKE SOLENOID
- SL_2 : PINTCH SOLENOID
- SL_3 : PAUSE SOLENOID
- SL_{601} : RELEASE SOLENOID
- RY_{601} : PLAY RELAY
- RY_{301} : REC RELAY

4. CIRCUIT DESCRIPTIONS

4.1 CONTROL CIRCUIT

• Play Function (Fig. 1)

1. When the play button $S_{10\text{-}2}$ is pushed, ground connection of R_{407} is interrupted and the base circuit of Q_{404} is opened. No current can flow through Q_{404}, and it enters OFF state.
2. +B voltage causes current to flow along the route $D_{405} \rightarrow Q_{405} \rightarrow R_{411} \rightarrow R_{410}$, whereby Q_{405} is turned ON.
3. Base current of Q_{409} can flow through R_{414} and transistor becomes ON. The collector current of Q_{409} activates brake solenoid SL_1, pinch solenoid SL_2 and play relay RY_{601}.
4. Base current of Q_{410} can flow through R_{412} and transistor becomes ON. Q_{410} collector current activates PAUSE solenoid SL_3.

Operation of brake solenoid SL_1 releases the brakes of the supply motor (SM) and take-up motor (TM). Operation of the pinch solenoid SL_2 causes the pinch roller to be pressed against the capstan.

Table 1

Transport Mode	Transistors in ON state	Transistors in OFF state
STOP	Q_{404}	Q_{403}, Q_{405}, Q_{409}, Q_{410}
PLAY	Q_{403}, Q_{405}, Q_{409}, Q_{410}	Q_{404}
FF/REW	Q_{404}	Q_{403}, Q_{405}, Q_{409}, Q_{410}
PAUSE	Q_{403}, Q_{405}, Q_{410}	Q_{404}, Q_{409}

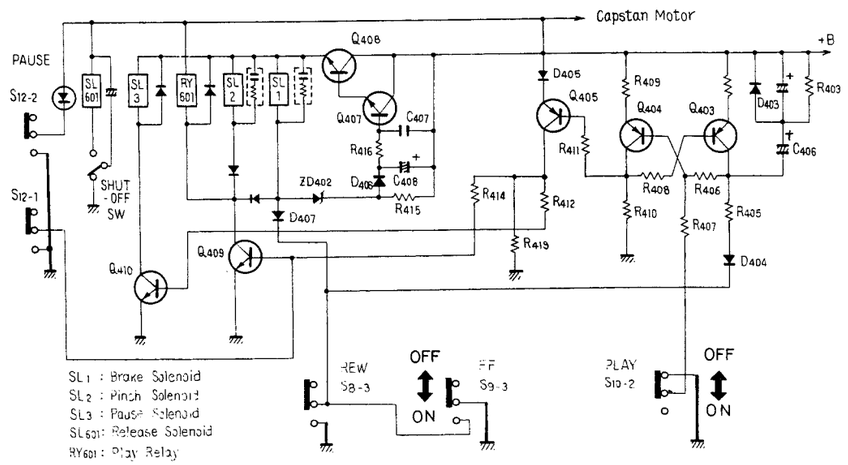


Fig. 1

4.2 PLAYBACK AMPLIFIER (Fig. 2)

1. The playback signal from the playback head enters IC_{101} through C_{103}.
2. The amplified output from IC_{101} undergoes playback equalization in the equalizer formed by VR_{101}, R_{109}, C_{113}, R_{107}.
3. The difference in equalization between 19cm and 9.5cm/s tape speeds is obtained by varying the voltage applied to the gate of FET Q_{101} (0.4V for 19cm/s, −8.5V for 9.5cm/s) and utilizing the resultant change in the FET's internal impedance.
4. The signal from IC_{101} is then amplified in the direct coupled NPN PNP amplifier (Q_{103}, Q_{105}) and becomes available at the line output terminals.
5. A portion of the output signal undergoes impedance conversion in Q_{107} and matching transformer T_{101} and becomes available at the phones output jack.

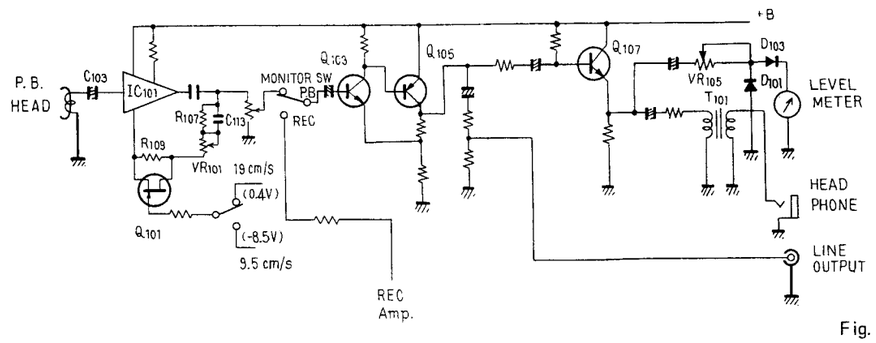


Fig. 2

5. EXPLODED VIEWS

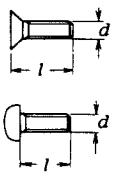
The following symbols stand for screws, washers and nuts as shown in exploded view.

Symbol	Description	Shape
RT	Brazier head tapping screw	
PT	Pan head tapping screw	
BT	Binding head tapping screw	
CT	Countersunk head tapping screw	
TT	Truss head tapping screw	
OCT	Oval countersunk head tapping screw	
PM	Pan head machine screw	
CM	Countersunk head machine screw	
OCM	Oval countersunk head machine screw	
TM	Truss head machine screw	
BM	Binding head machine screw	
PSA	Pan head screw with spring lock washer	
PSB	Pan head screw with spring lock washer and flat washer	
PSF	Pan head screw with flat washer	

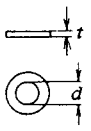
Symbol	Description	Shape
EW	E type washer	
FW	Flat washer	
SW	Spring lock washer	
N	Nut	
WN	Washer faced nut	
ITW	Internal toothed lock washer	
OTW	Outernal toothed lock washer	
SC	Slotted set screw (Cone point)	
SF	Slotted set screw (Flat point)	
HS	Hexagon socket headless set screw	
OCW	Oval countersunk head wood screw	
CW	Countersunk head wood screw	
RW	Round head wood screw	

EXAMPLE

PM・3x8
- length in mm (l)
- diameter in mm (d)
- Symbol

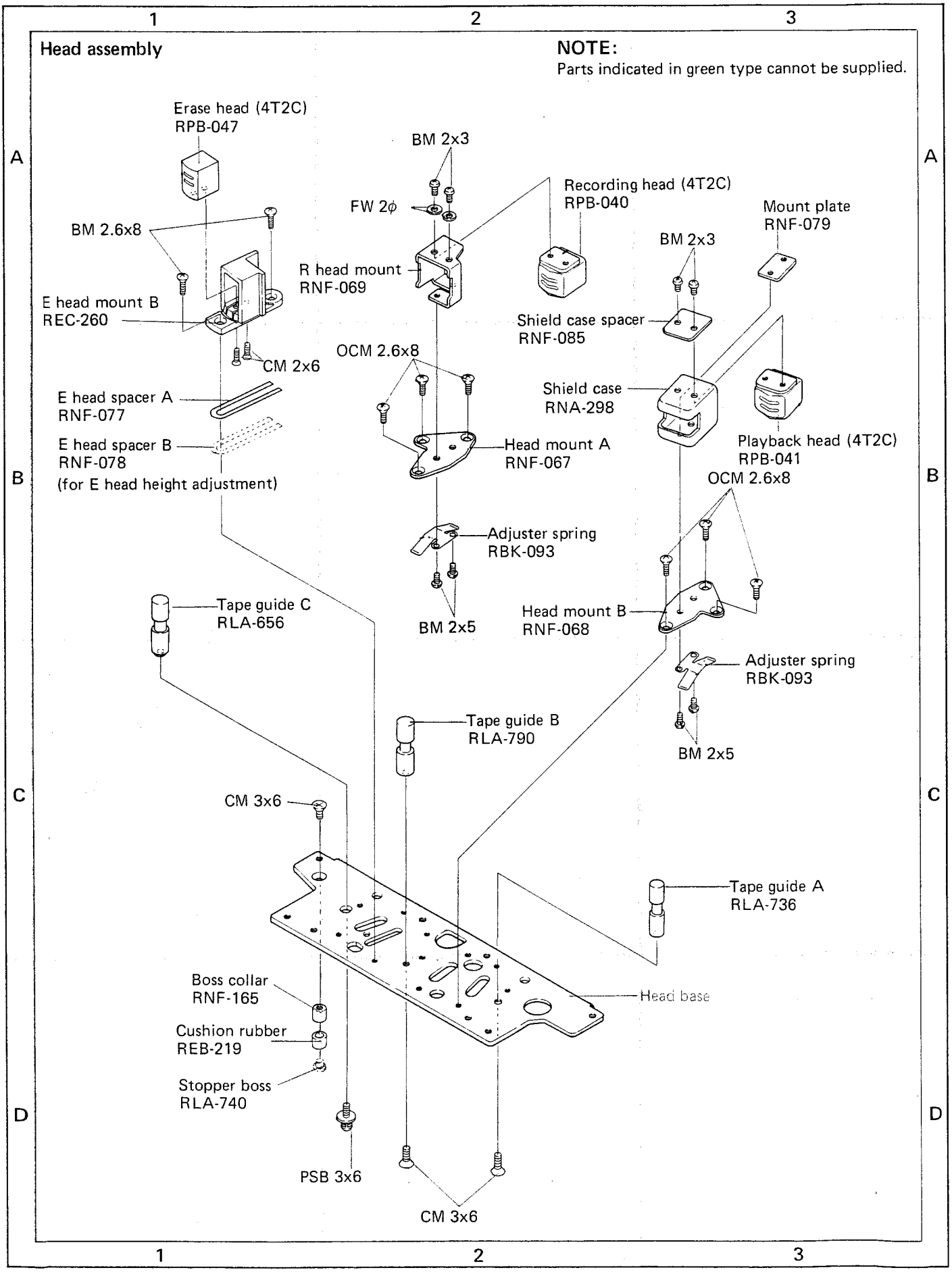


FW・9φx1^{t}
- thickness in mm (t)
- diameter in mm (d)
- Symbol



Head assembly

NOTE:
Parts indicated in green type cannot be supplied.



External view

NOTE:
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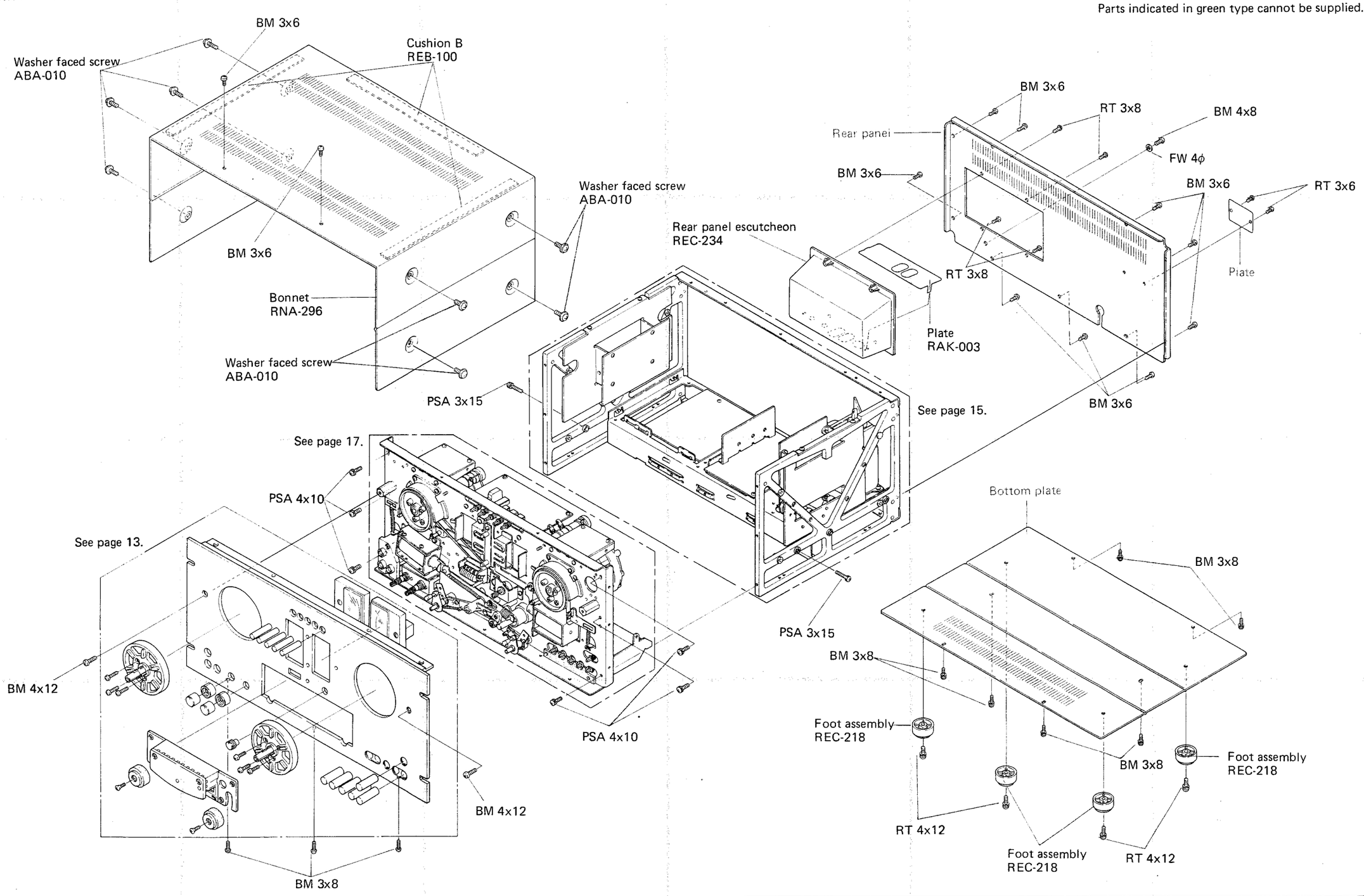

Front panel view

NOTE:
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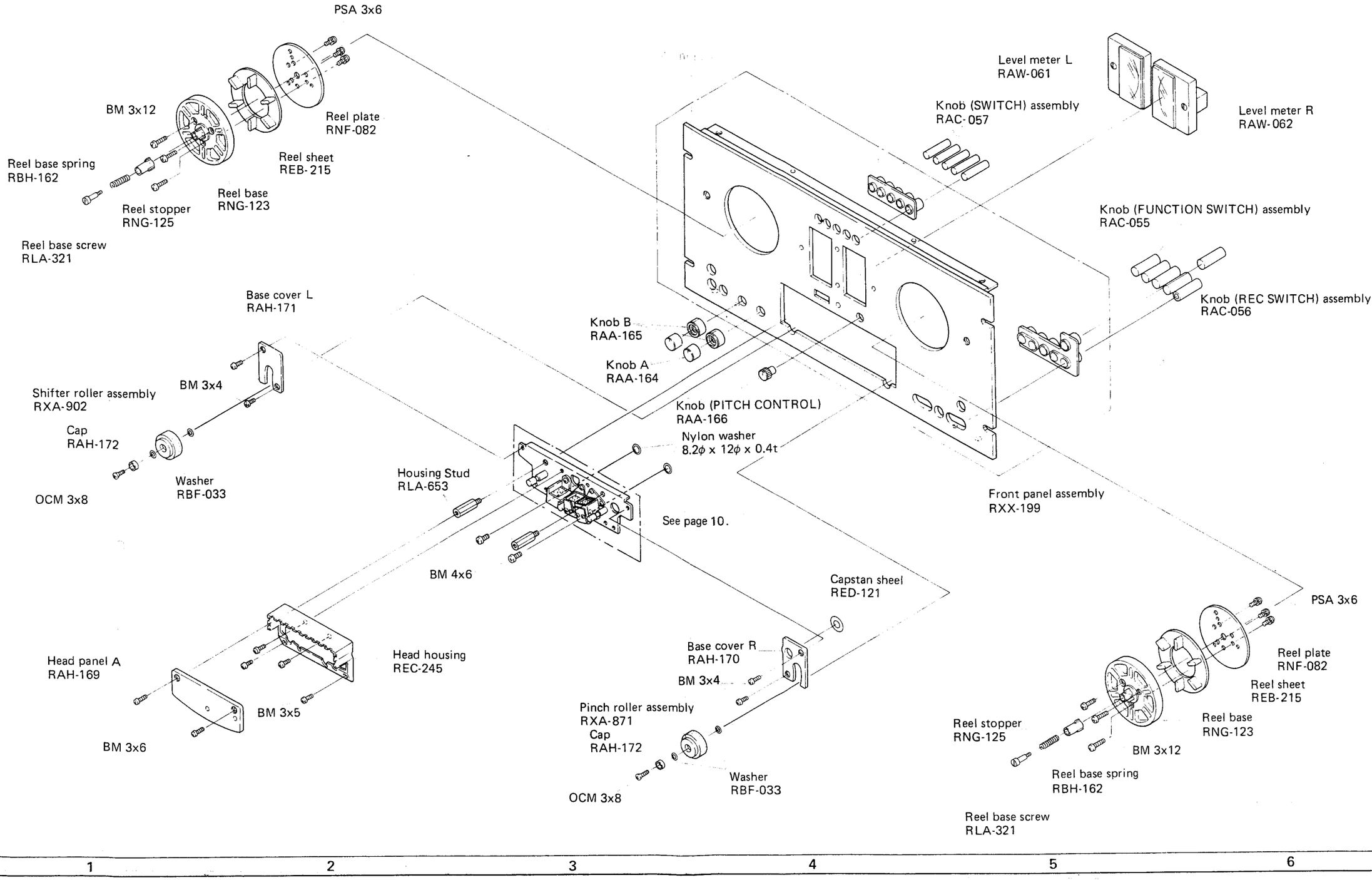

Structure view

NOTE:
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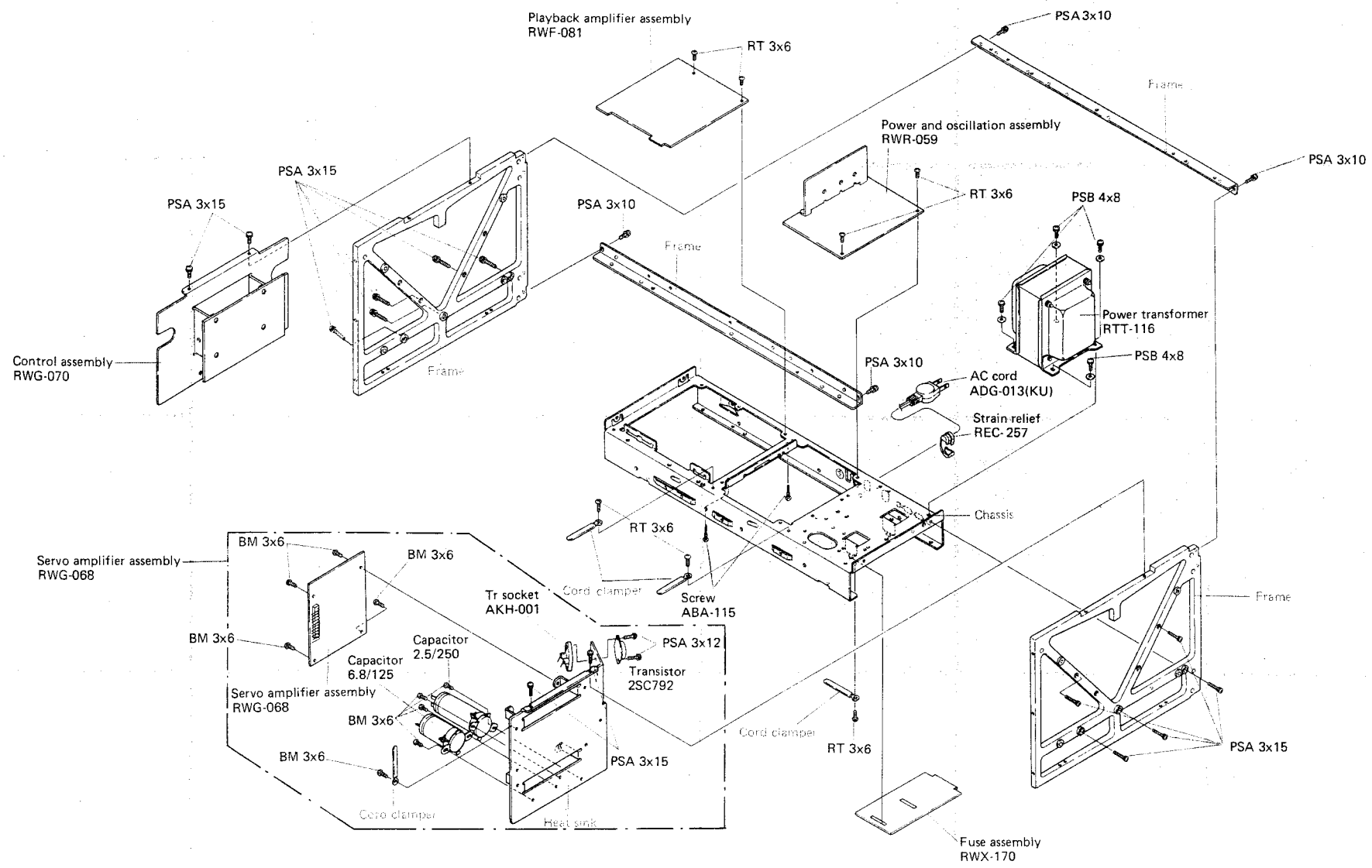

Front side view of mechanism chassis

NOTE:
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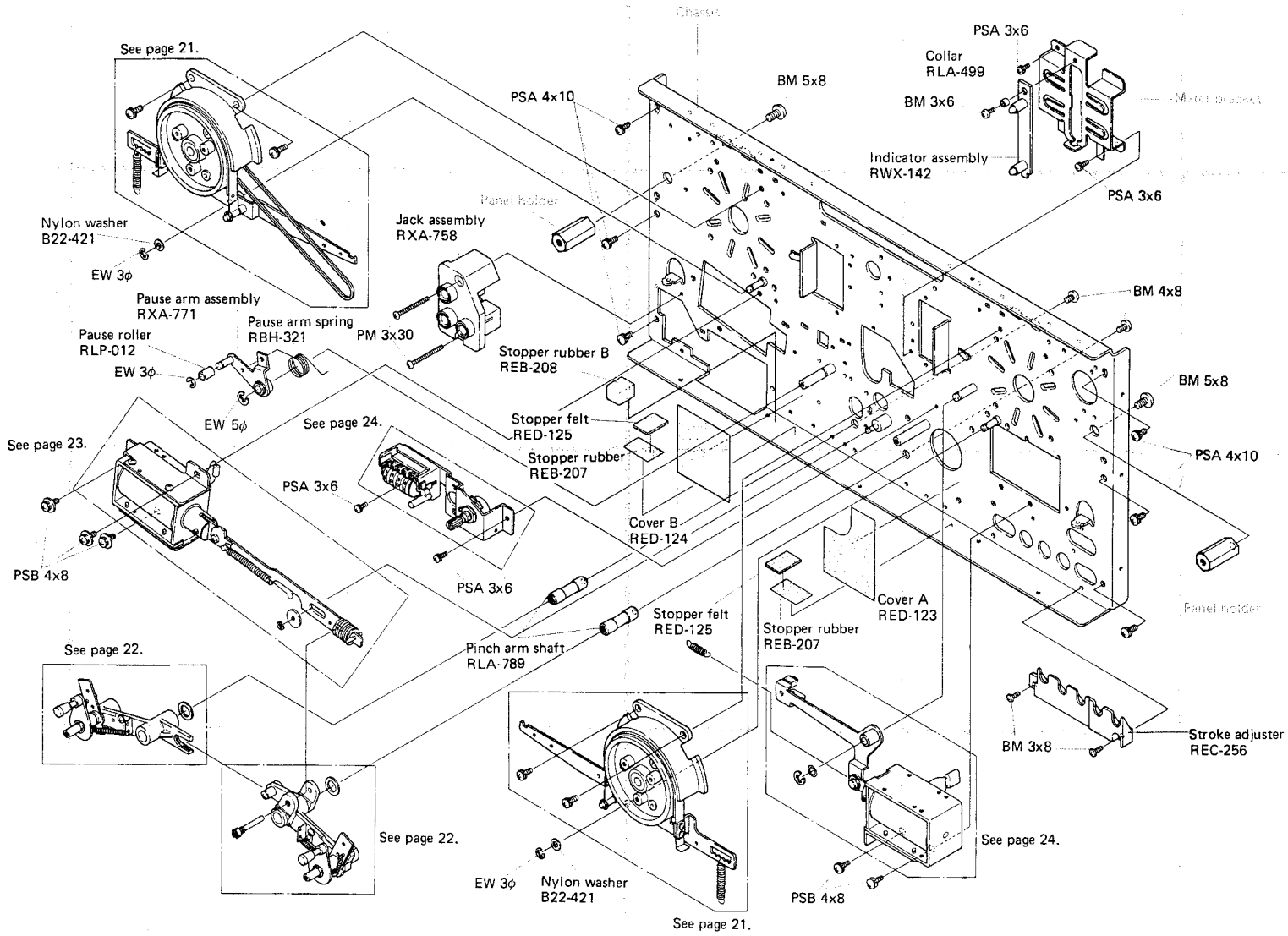

Rear side view of mechanism chassis

NOTE:
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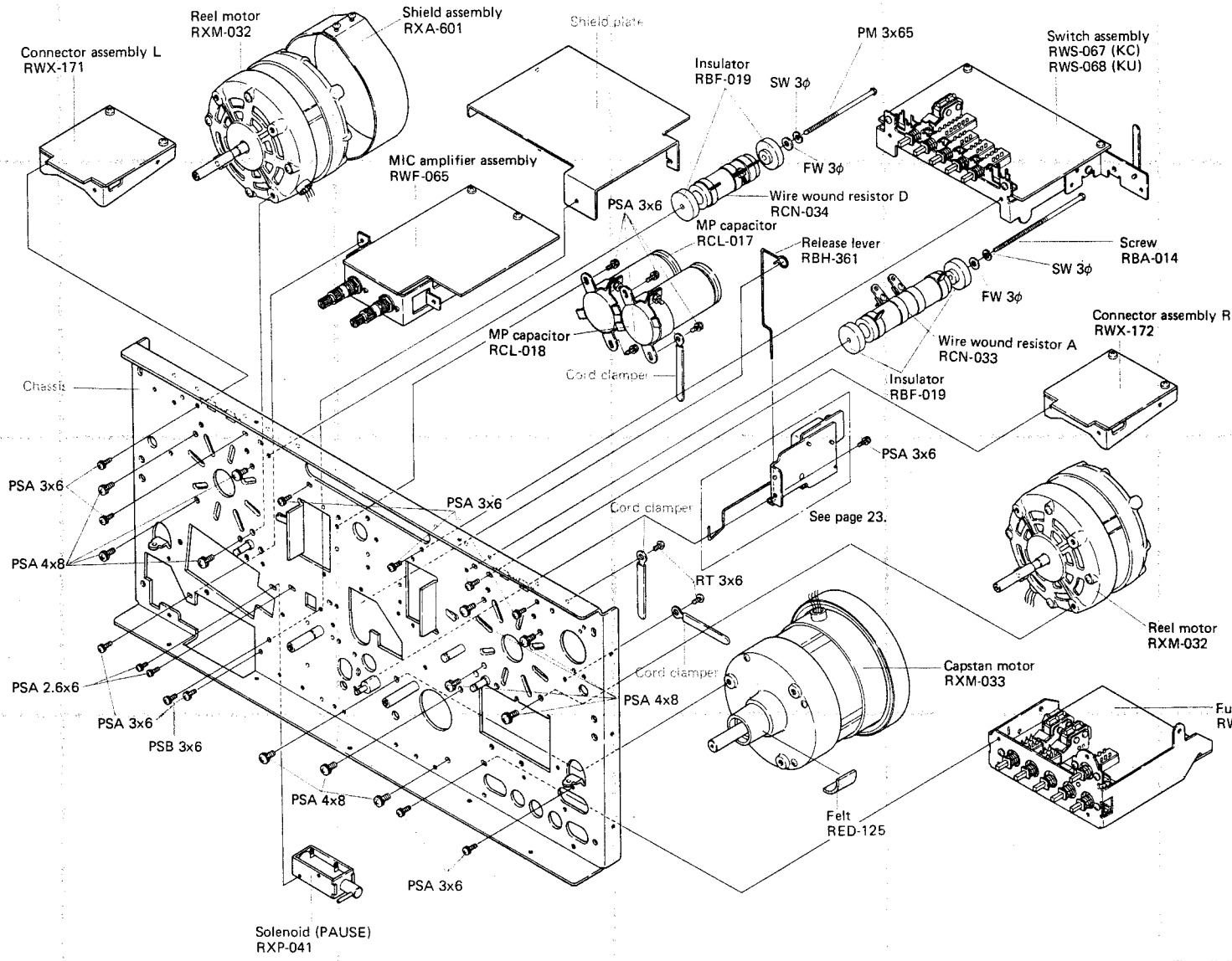

Brake assembly R

NOTE:
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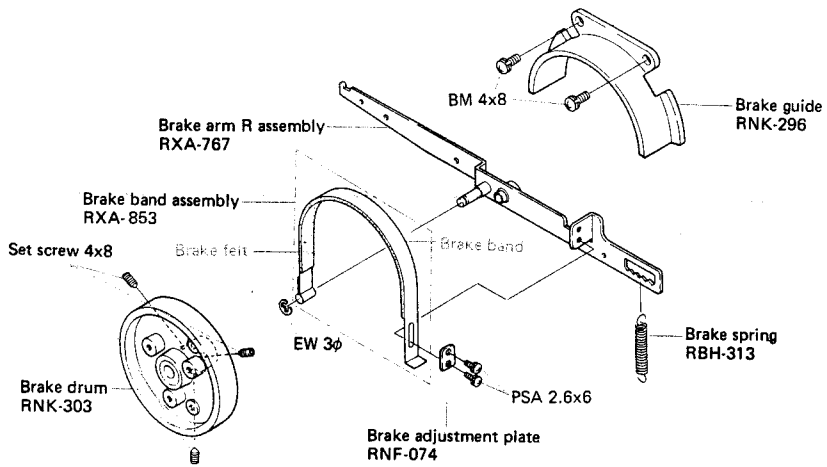
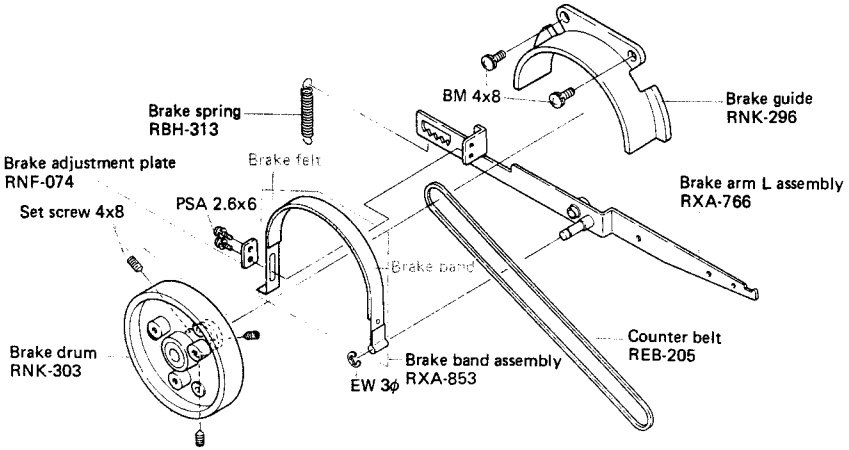
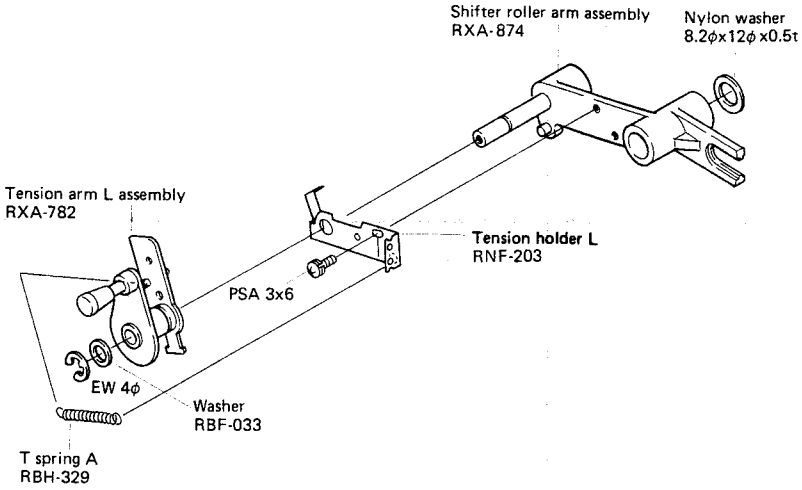


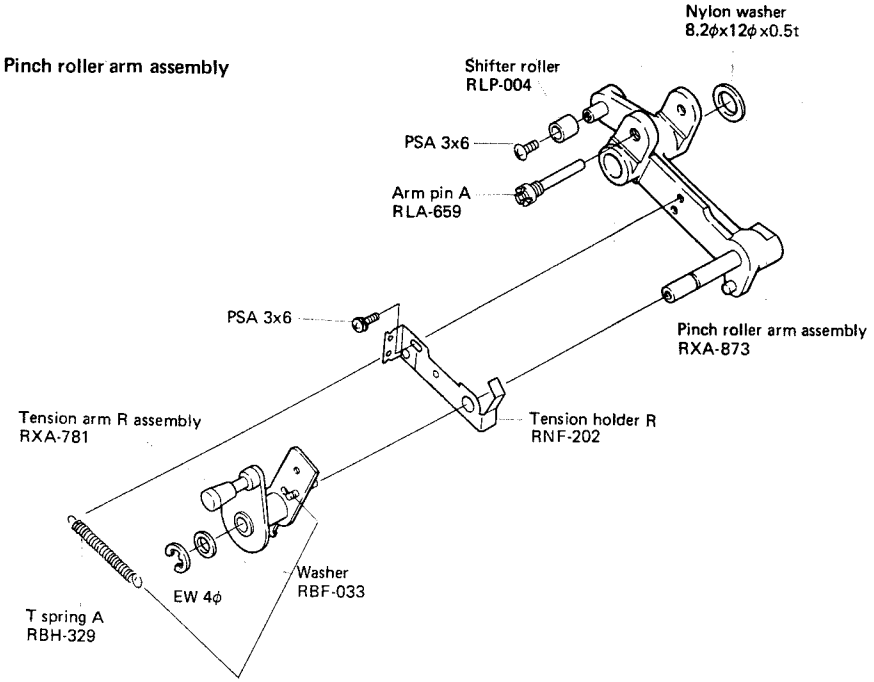
Brake assembly L



Shifter roller arm assembly



Pinch roller arm assembly



Solenoid (PINCH) assembly

NOTE:
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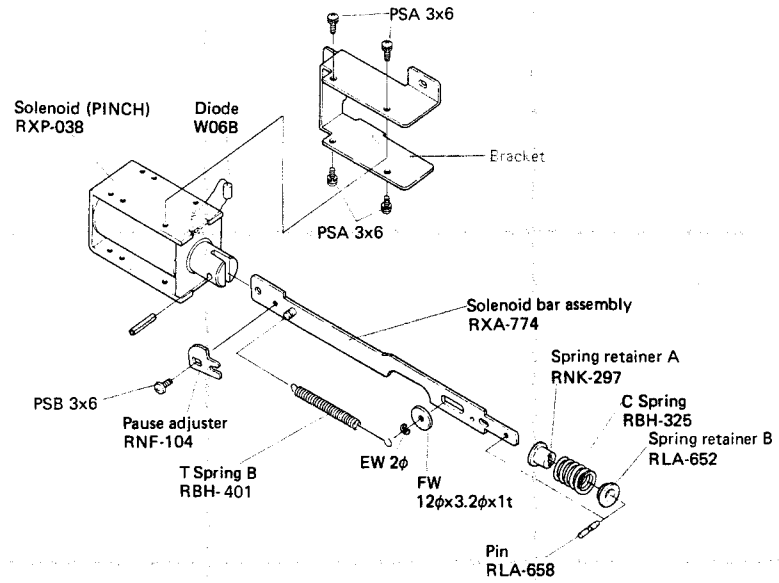
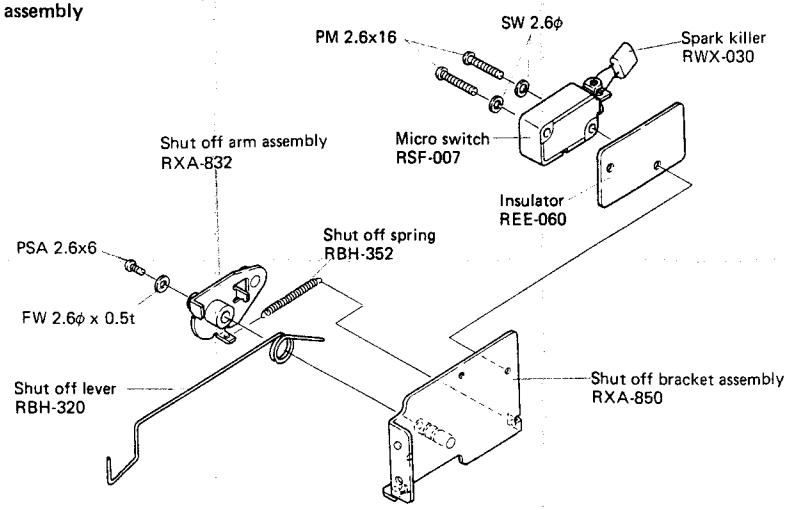


Shut off assembly



Solenoid (BRAKE) assembly

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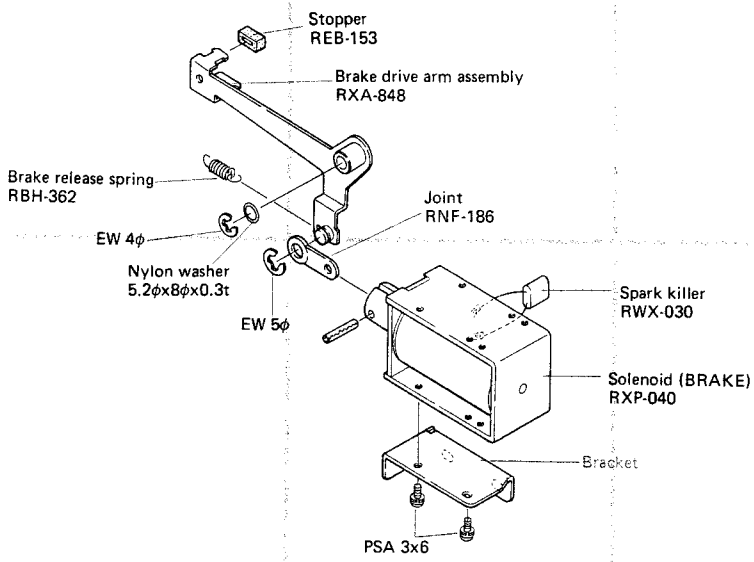
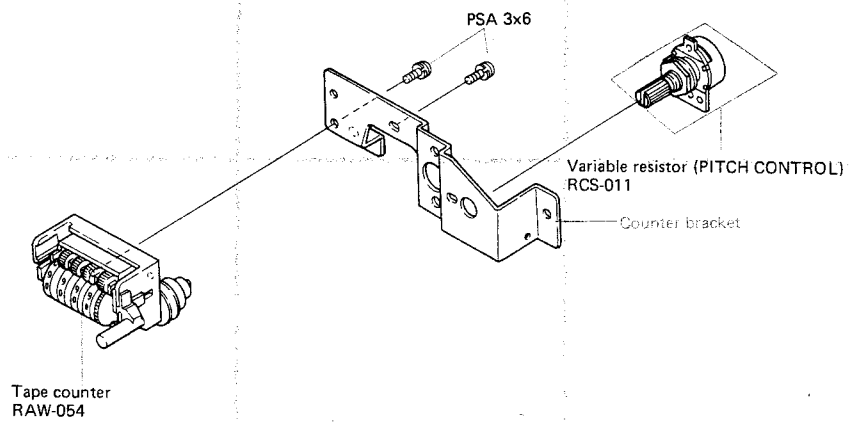


Tape counter assembly



6. SCHEMATIC DIAGRAMS, P.C. BOARD PATTERNS AND PARTS LISTS.

6.1 MISCELLANEOUS PARTS LIST

NOTE:
- *Capacitors: in μF unless otherwise noted p:pF*
- *Resistors: in Ω, ¼W unless otherwise noted k:kΩ, M:MΩ*

CAPACITORS

Symbol	Part No.	Description
C1	RCL-017	MP capacitor
C2	RCL-018	MP capacitor

RESISTORS

Symbol	Part No.	Description
R1	RCN-034	Wire wound resistor D 2k 20W
R2	RCN-033	Wire wound resistor A 350 25W
VR1	RCS-011	Variable resistor (PITCH CONTROL)

SEMICONDUCTORS

Symbol	Part No.	Description
D1	W06B	Diode
D3	W06B	Diode

TRANSFORMER

Symbol	Part No.	Description
T1	RTT-116	Power transformer

OTHERS

Symbol	Part No.	Description
VU1	RAW-061	Level meter L
VU2	RAW-062	Level meter R
S16	RSF-007	Micro switch
CR1	RWX-030	Spark killer
CR2	RWX-030	Spark killer
	RXP-038	Solenoid (PINCH)
	RXP-041	Solenoid (PAUSE)
	RXP-040	Solenoid (BRAKE)
	RPB-047	Erase head
	RPB-040	Recording head
	RPB-041	Playback head
	RWR-059	Power and oscillation assembly
	RWF-081	Playback amplifier assembly
	RWX-170	Fuse assembly
	RWF-065	Mic amplifier assembly

Symbol	Part No.	Description
	RWS-068	Switch assembly (KU)
	RWS-067	Switch assembly (KC)
	RWS-051	Function switch assembly
	RXA-758	Jack assembly
	RXM-033	Capstan motor
	RXM-032	Reel motor

NOTE:

List of changed parts information will be furnished whenever necessary and you are requested to amend parts number in this parts list.

List of Changed Parts for Factory Modification

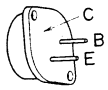
Symbol	Part No.	Description

6.2 EXTERNAL APPEARANCE OF TRANSISTORS AND ICs

2SC1344
2SA672

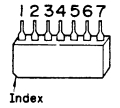
2SC1213

2SC792



2SC945
2SA564A
2SC828
2SA564
2SC1959
2SA721

TA7061AP



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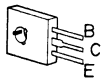
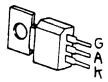
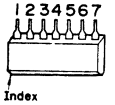


2SK30A

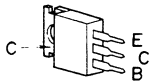
SF1R3G41



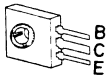
TA7129P



2SD525
2SD526



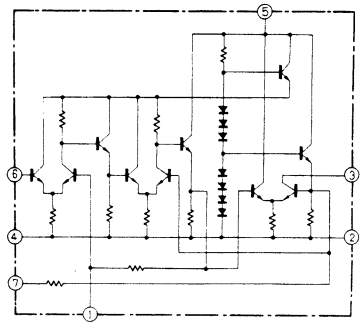
2SC1567



2SC1166

Circuit Diagram of ICs

TA7061AP



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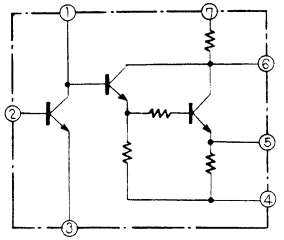
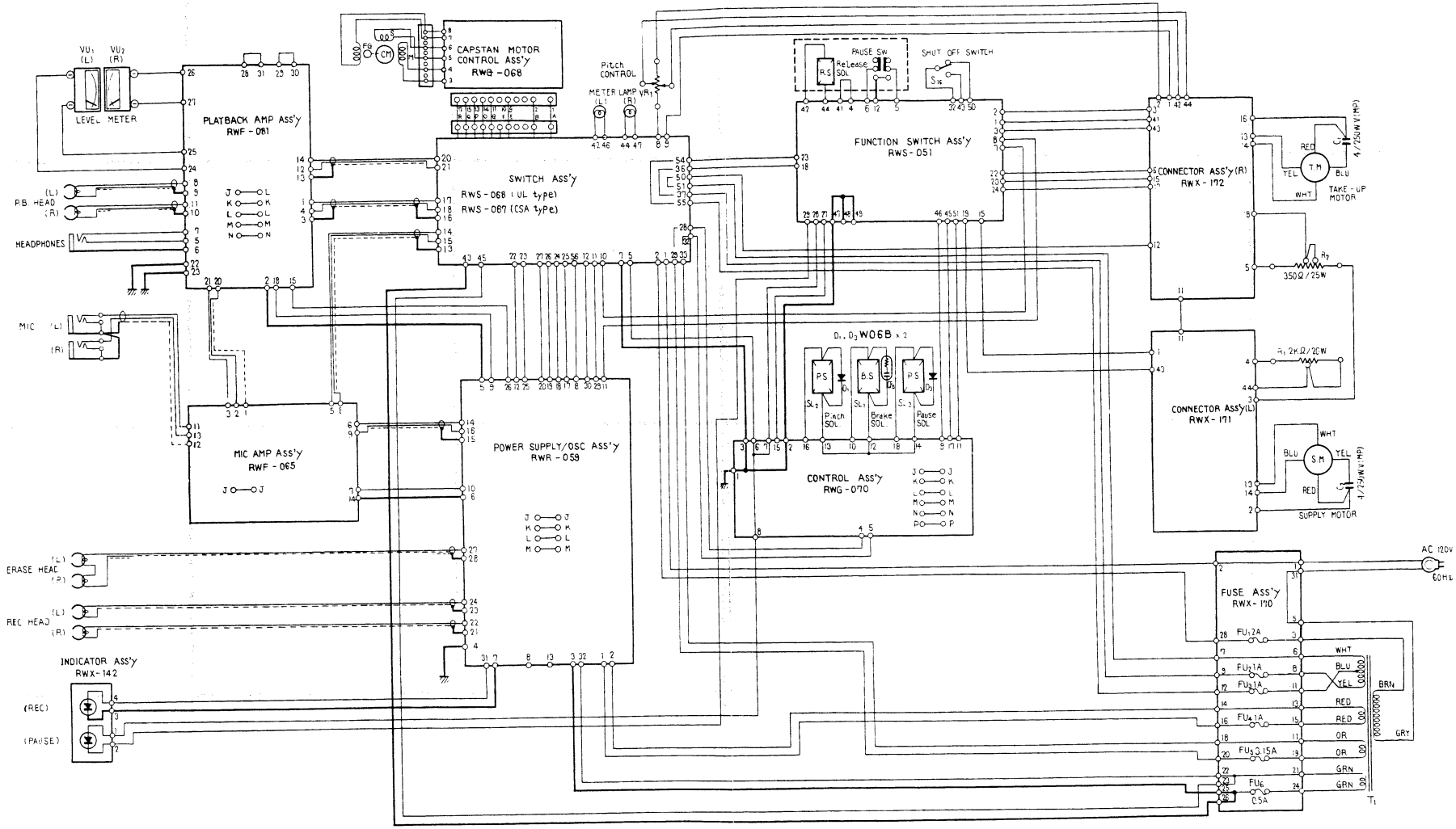
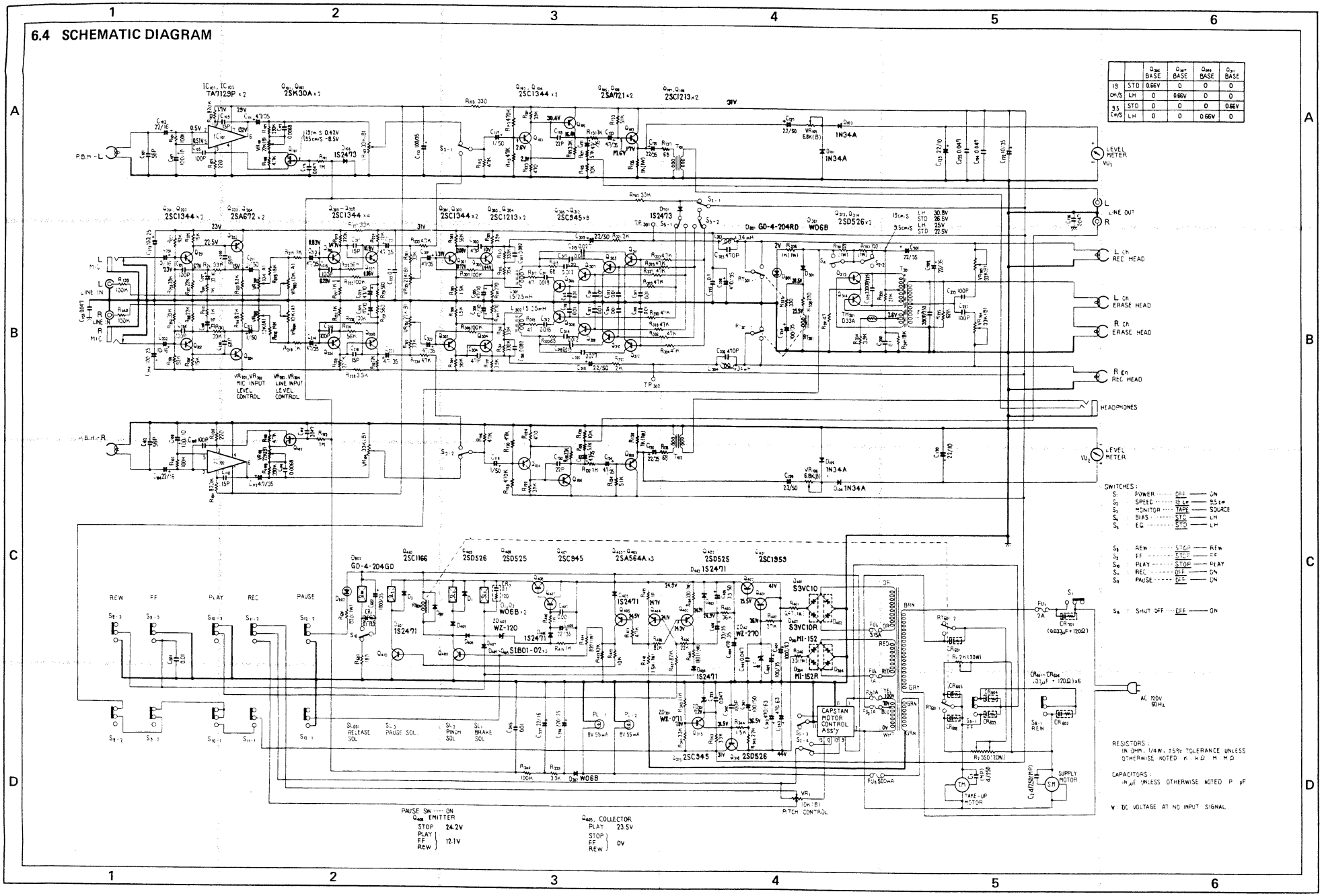


6.3 CONNECTION DIAGRAM

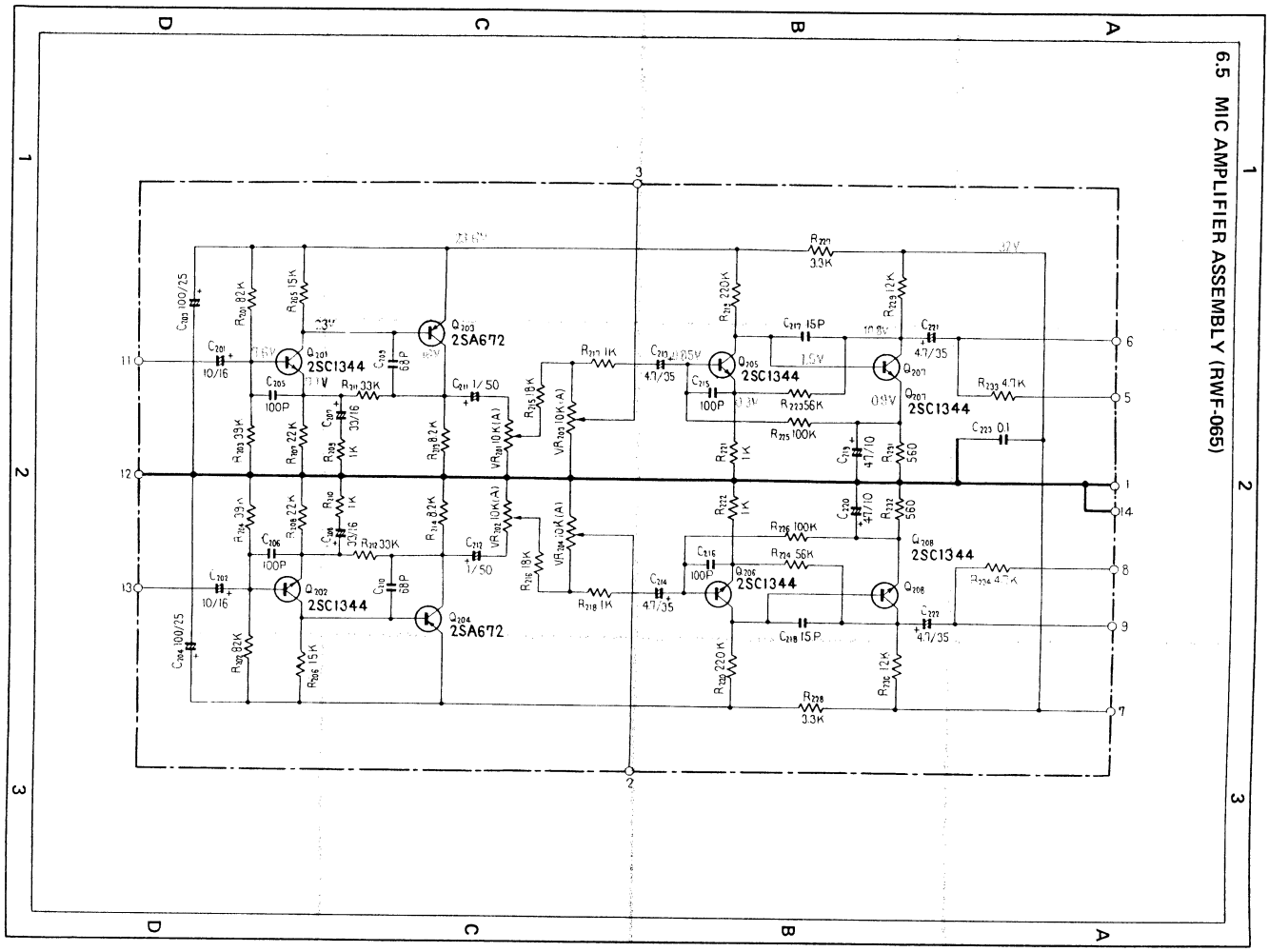


6.4 SCHEMATIC DIAGRAM



		BASE	BASE	BASE	BASE
19	STD	0.66V	0	0	0
cm/s	LH	0	0.66V	0	0
9.5	STD	0	0	0	0.66V
cm/s	LH	0	0	0.66V	0

6.5 MIC AMPLIFIER ASSEMBLY (RWF-065)



RWF-081, No.20

RWF-081, No.21

RWS-068, No.13

RWS-068, No.14

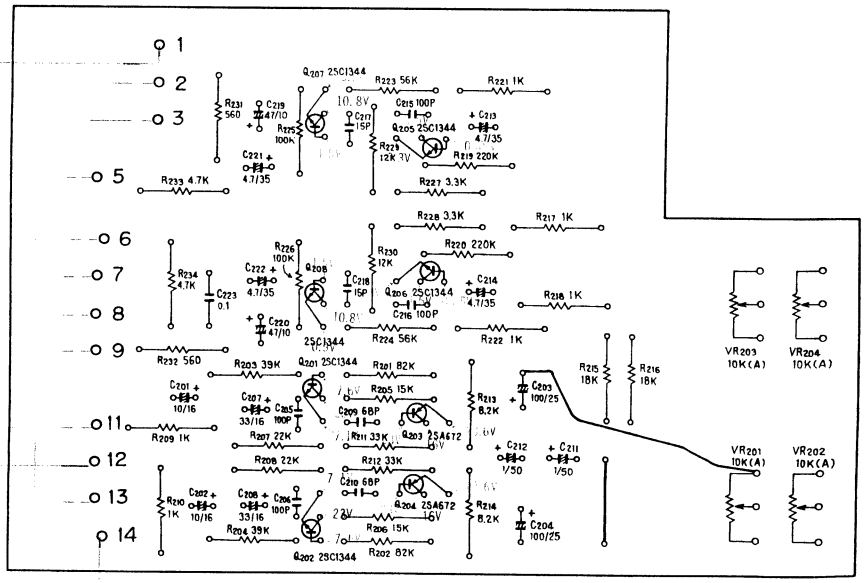
RWS-068, No.15

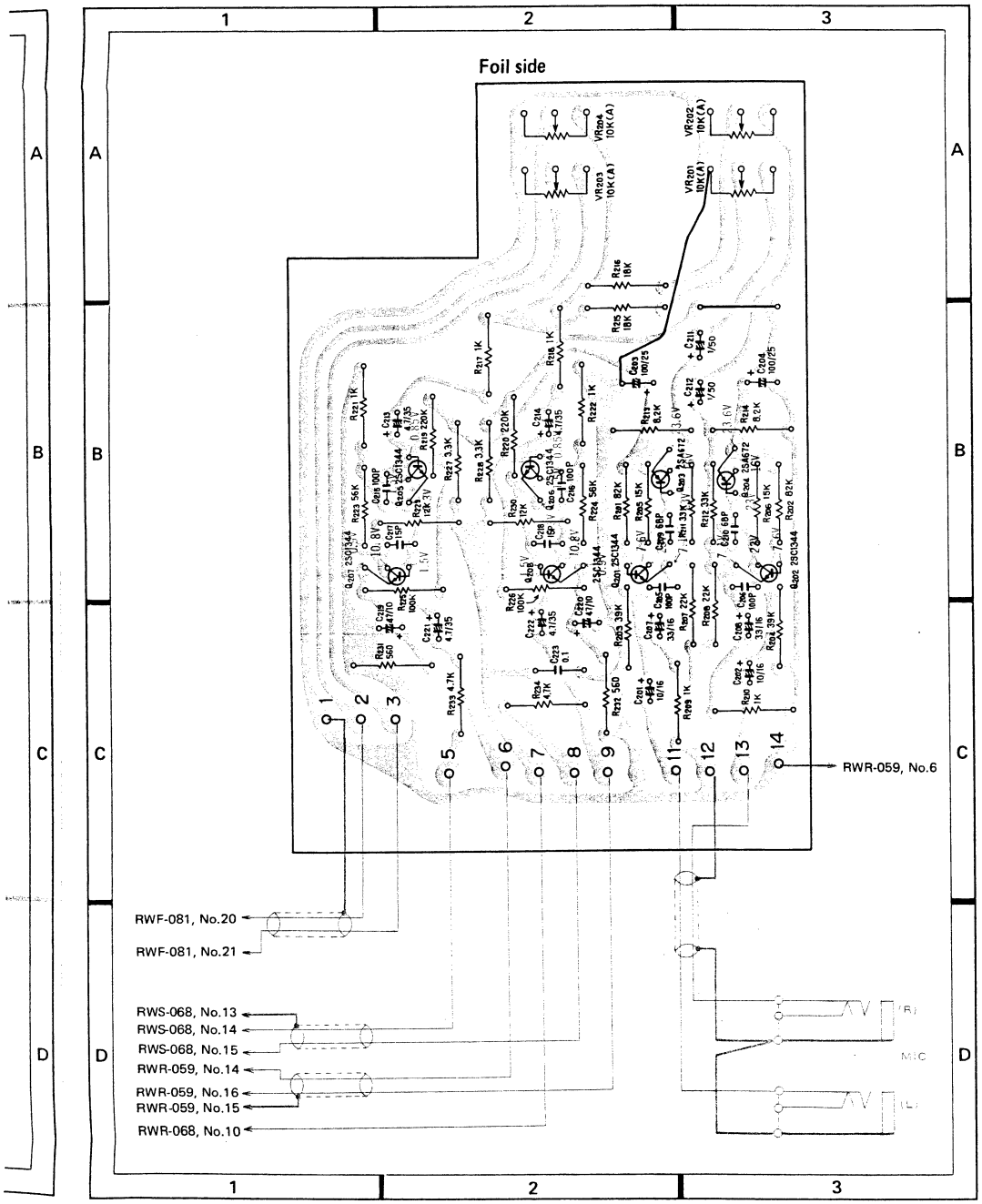
RWR-059, No.14

RWR-059, No.16

RWR-059, No.15

RWR-068, No.10





Parts List

CAPACITORS

Symbol	Part No.	Description		
C201	RCH-018	Electrolytic	10	16V
C202	RCH-018	Electrolytic	10	16V
C203	CEA 101P 25	Electrolytic	100	25V
C204	CEA 101P 25	Electrolytic	100	25V
C205	CCDSL 101K 50	Ceramic	100p	50V
C206	CCDSL 101K 50	Ceramic	100p	50V
C207	CEA 330P 16	Electrolytic	33	16V
C208	CEA 330P 16	Electrolytic	33	16V
C209	CCDSL 680K 50	Ceramic	68p	50V
C210	CCDSL 680K 50	Ceramic	68p	50V
C211	CEA 010P 50	Electrolytic	1	50V
C212	CEA 010P 50	Electrolytic	1	50V
C213	CEA 4R7P 35	Electrolytic	4.7	35V
C214	CEA 4R7P 35	Electrolytic	4.7	35V
C215	CCDSL 101K 50	Ceramic	100p	50V
C216	CCDSL 101K 50	Ceramic	100p	50V
C217	CCDSL 150K 50	Ceramic	15p	50V
C218	CCDSL 150K 50	Ceramic	15p	50V
C219	CEA 470P 10	Electrolytic	47	10V
C220	CEA 470P 10	Electrolytic	47	10V
C221	CEA 4R7P 35	Electrolytic	4.7	35V
C222	CEA 4R7P 35	Electrolytic	4.7	35V
C223	CQMA 104K 50	Mylar	0.1	50V

RESISTORS

Symbol	Part No.	Description	
VR201	RCV-033	Variable resistor	10k-A
VR202	RCV-033	Variable resistor	10k-A
VR203	RCV-033	Variable resistor	10k-A
VR204	RCV-033	Variable resistor	10k-A
R201	RD¼PS 823J	Carbon film	82k
R202	RD¼PS 823J	Carbon film	82k
R203	RD¼PS 393J	Carbon film	39k
R204	RD¼PS 393J	Carbon film	39k
R205	RD¼PS 153J	Carbon film	15k
R206	RD¼PS 153J	Carbon film	15k
R207	RD¼PS 223J	Carbon film	22k
R208	RD¼PS 223J	Carbon film	22k
R209	RD¼PS 102J	Carbon film	1k
R210	RD¼PS 102J	Carbon film	1k
R211	RD¼PS 333J	Carbon film	33k
R212	RD¼PS 333J	Carbon film	33k
R213	RD¼PS 822J	Carbon film	8.2k
R214	RD¼PS 822J	Carbon film	8.2k
R215	RD¼PS 183J	Carbon film	18k
R216	RD¼PS 183J	Carbon film	18k
R217	RD¼PS 102J	Carbon film	1k
R218	RD¼PS 102J	Carbon film	1k
R219	RD¼PS 224J	Carbon film	220k
R220	RD¼PS 224J	Carbon film	220k
R221	RD¼PS 102J	Carbon film	1k
R222	RD¼PS 102J	Carbon film	1k
R223	RD¼PS 563J	Carbon film	56k
R224	RD¼PS 563J	Carbon film	56k
R225	RD¼PS 104J	Carbon film	100k
R226	RD¼PS 104J	Carbon film	100k
R227	RD¼PS 332J	Carbon film	3.3k
R228	RD¼PS 332J	Carbon film	3.3k
R229	RD¼PS 123J	Carbon film	12k
R230	RD¼PS 123J	Carbon film	12k
R231	RD¼PS 561J	Carbon film	560
R232	RD¼PS 561J	Carbon film	560
R233	RD¼PS 472J	Carbon film	4.7k
R234	RD¼PS 472J	Carbon film	4.7k

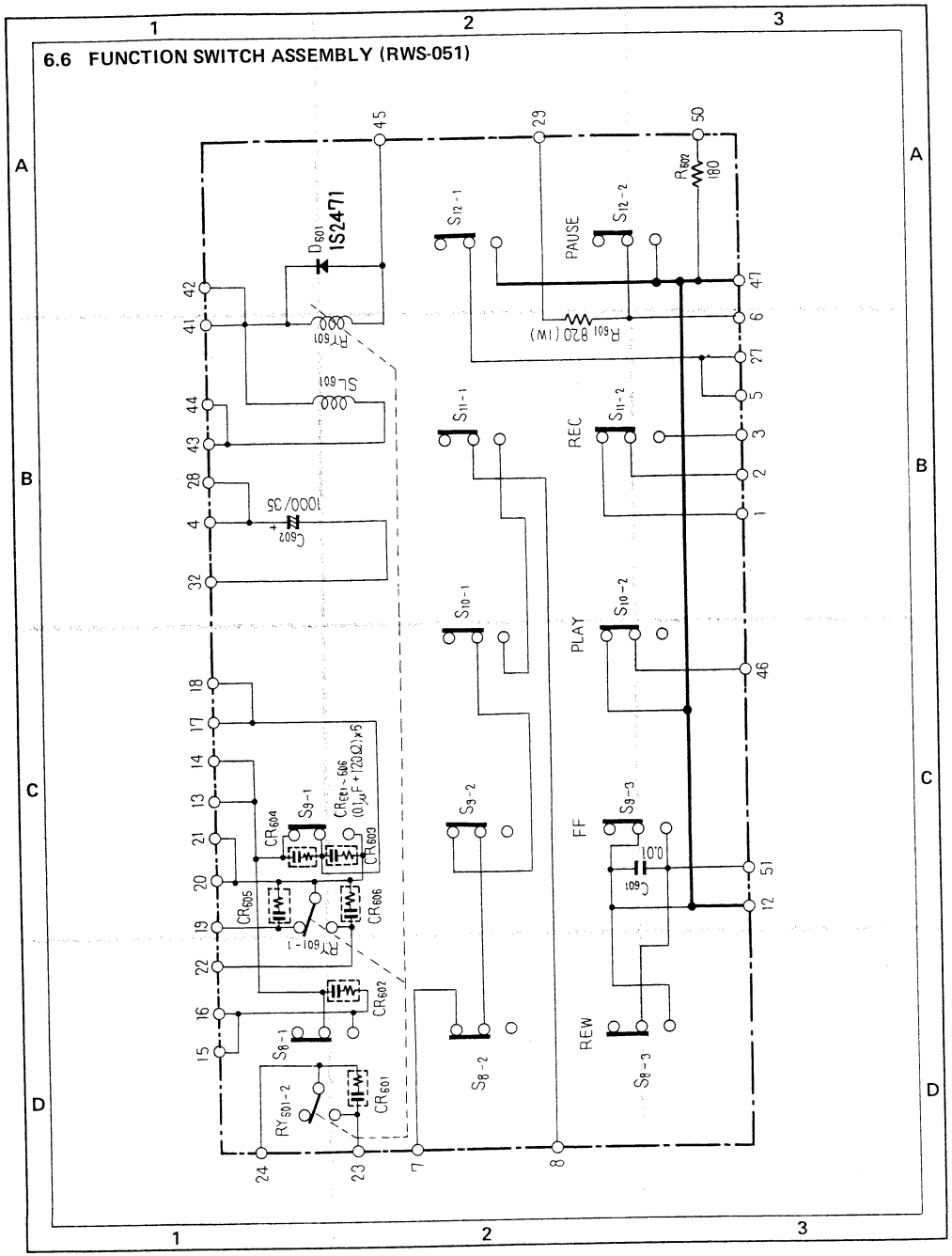
SEMICONDUCTORS

Symbol	Part No.	Description
Q201	2SC1344-D or E	Transistor
Q202	2SC1344-D or E	Transistor
Q203	2SA672-B or C	Transistor
Q204	2SA672-B or C	Transistor
Q205	2SC1344-D or E	Transistor
Q206	2SC1344-D or E	Transistor
Q207	2SC1344-D or E	Transistor
Q208	2SC1344-D or E	Transistor

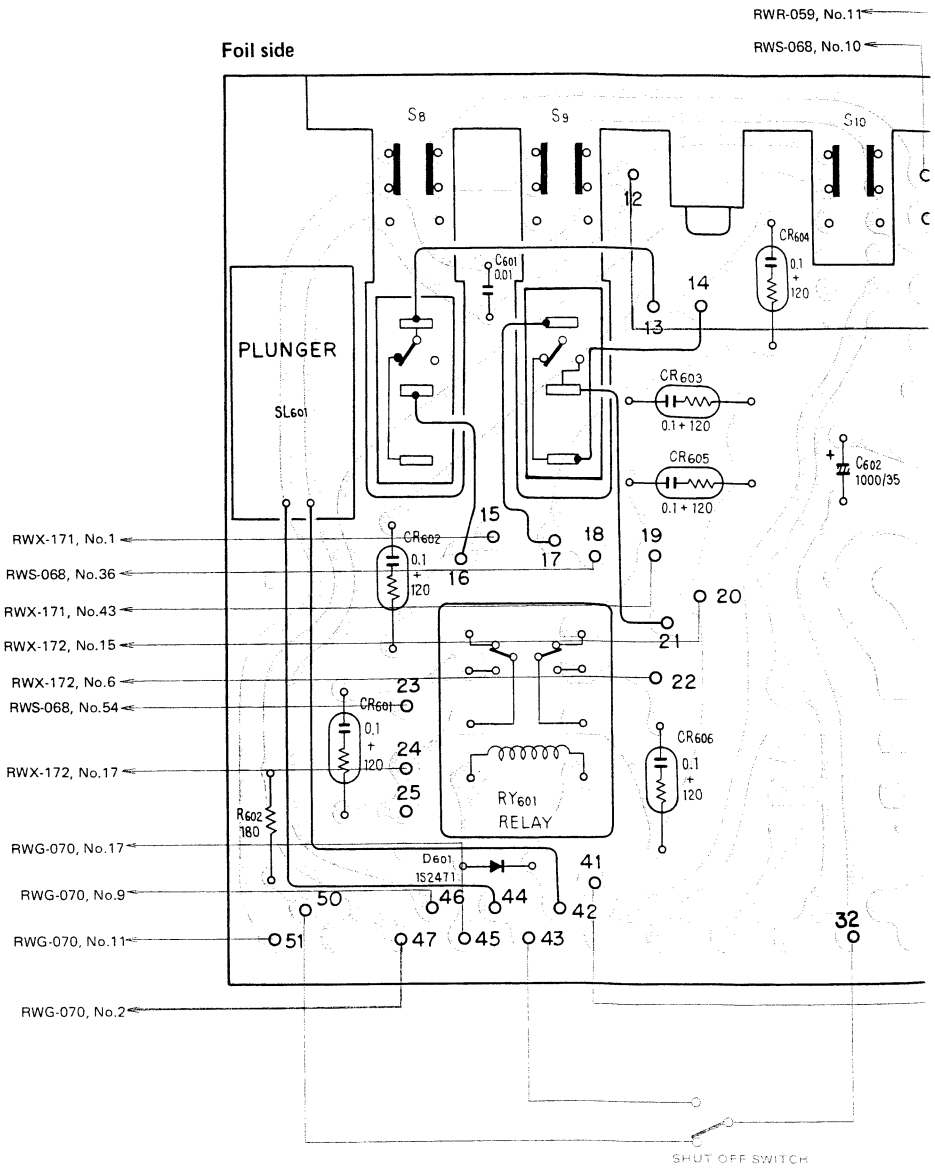
List of Changed Parts for Factory Modification

Symbol	Part No.	Description

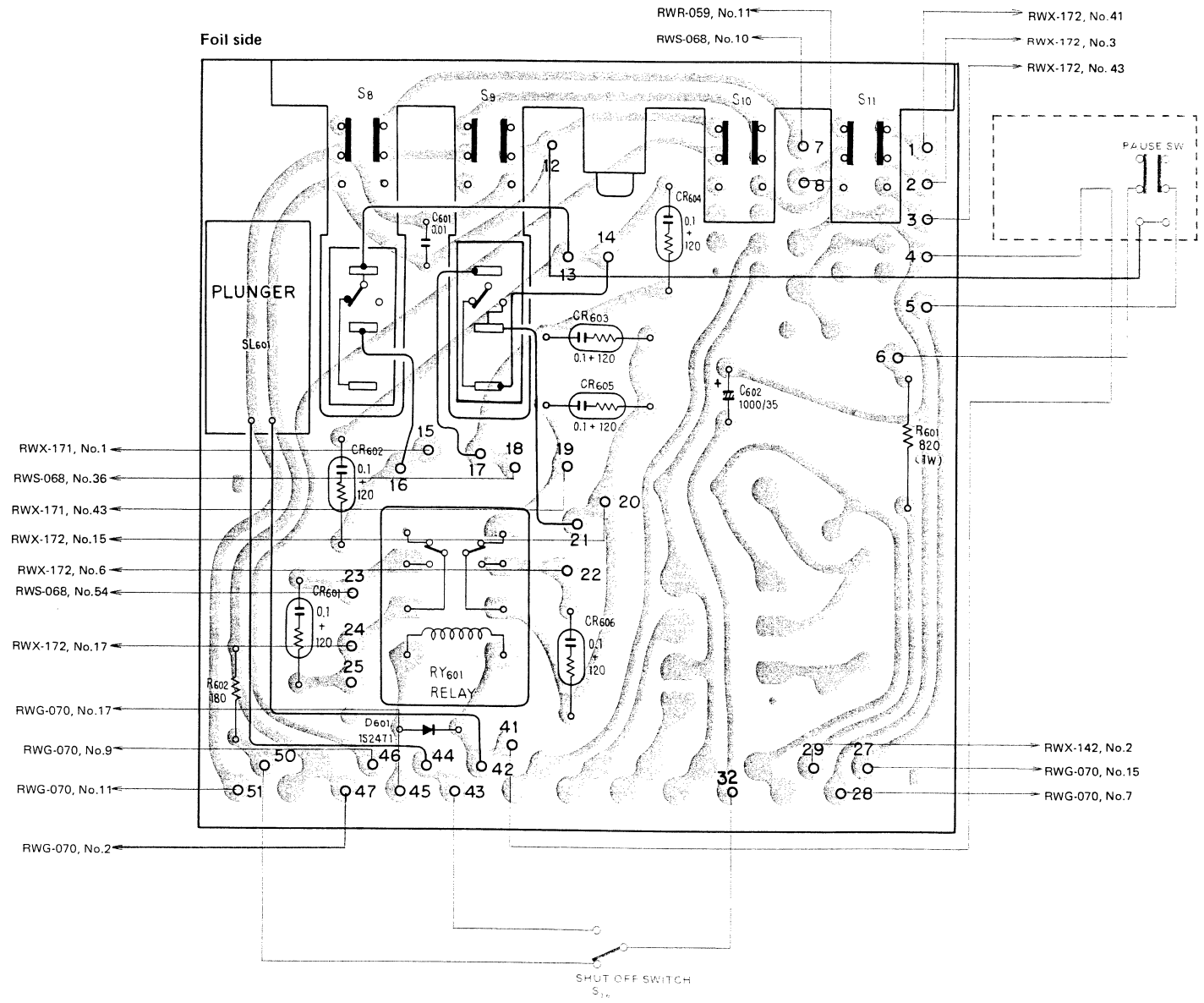
6.6 FUNCTION SWITCH ASSEMBLY (RWS-051)



Foil side



Foil side



Parts List

CAPACITORS

Symbol	Part No.	Description		
C601	CKDYF 103Z 50	Ceramic	0.01	50V
C602	CEA 102P 35	Electrolytic	1000	35V

RESISTORS

Symbol	Part No.	Description		
R601	RS1P 821J	Metal oxide	820	1W
R602	RD¼PS 181J	Carbon film	180	

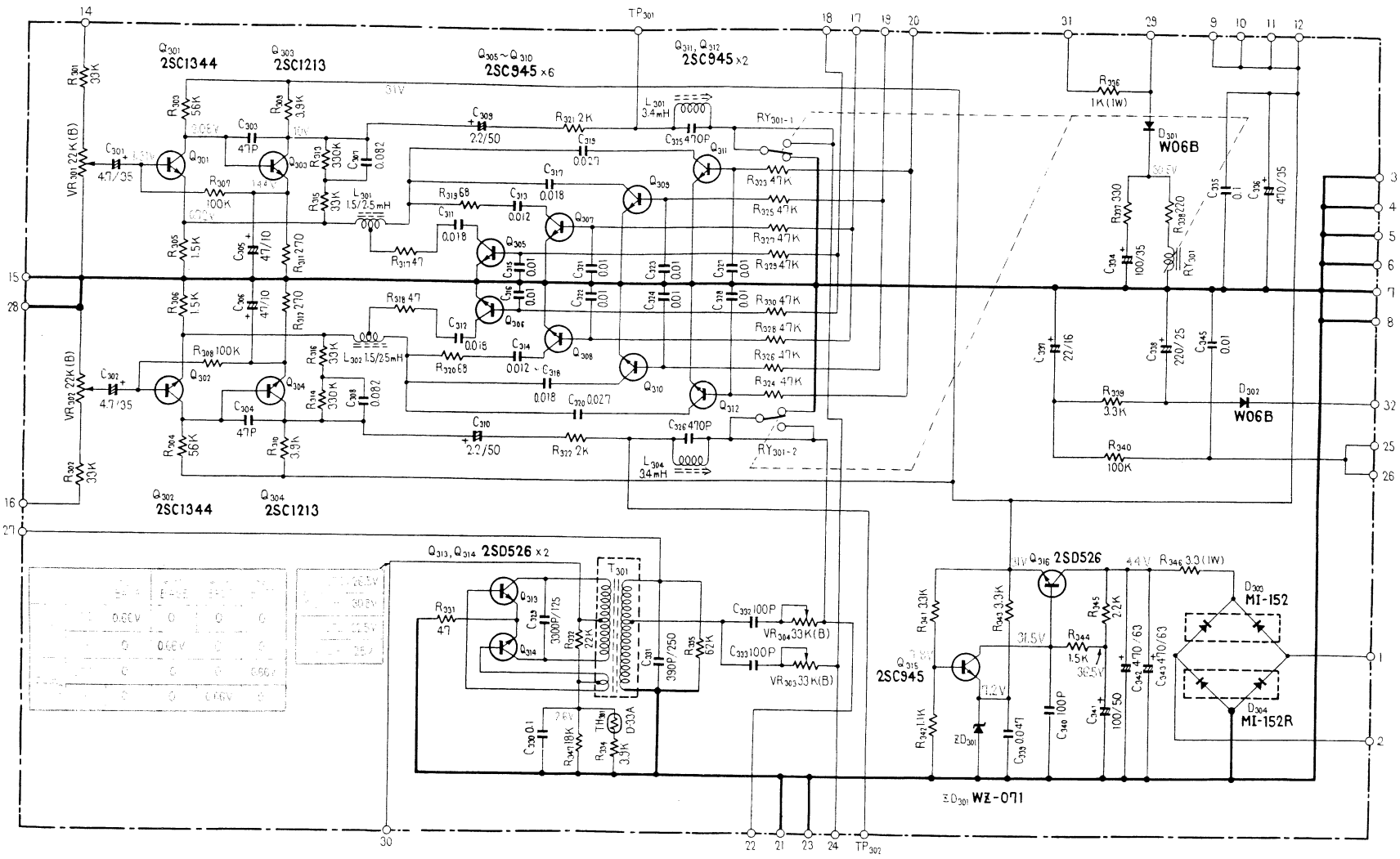
SEMICONDUCTOR

Symbol	Part No.	Description
D601	1S2471	Diode

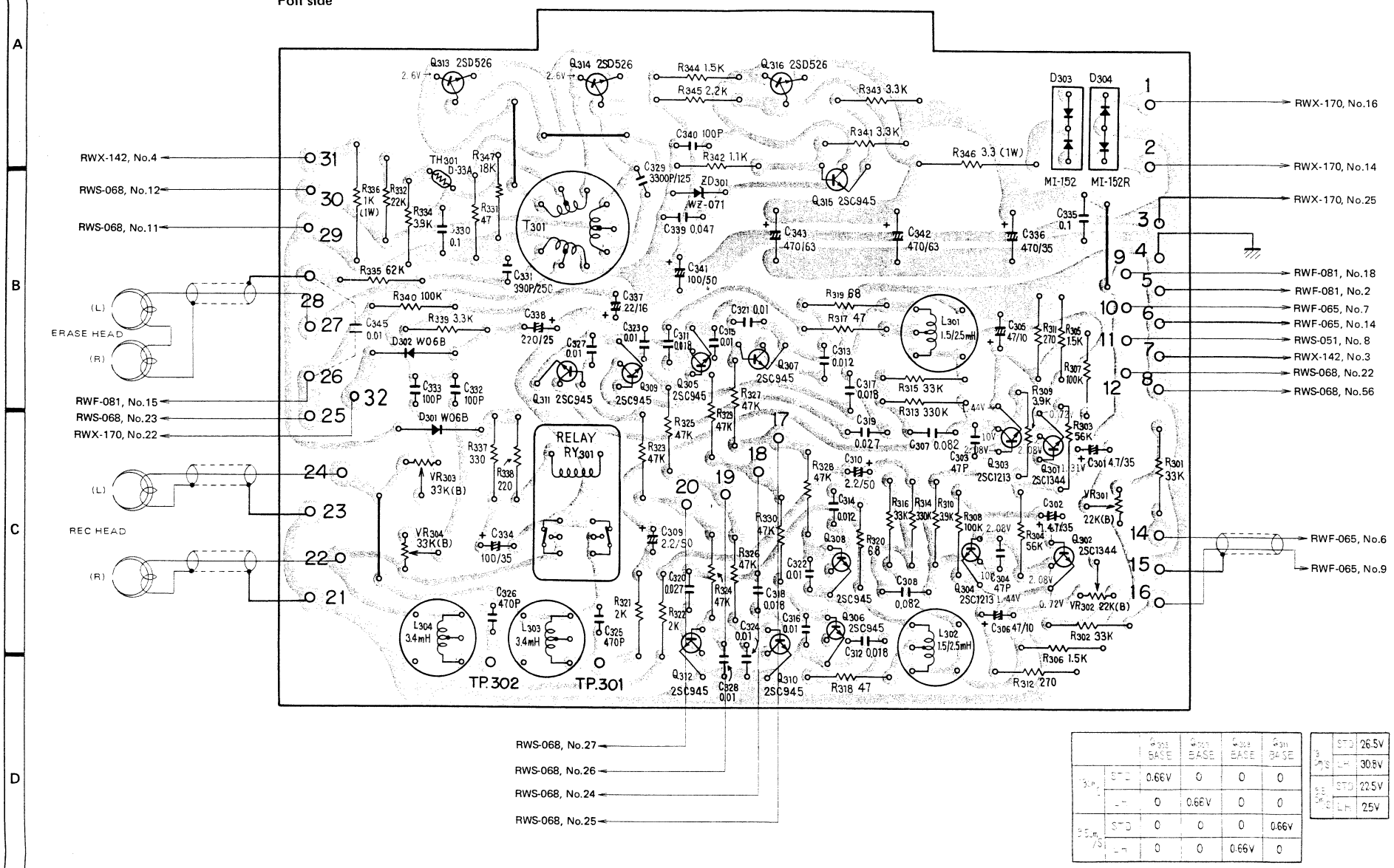
OTHERS

Symbol	Part No.	Description
RY601	RSR-016	Relay
CR601	RWX-030	Spark killer
CR602	RWX-030	Spark killer
CR603	RWX-030	Spark killer
CR604	RWX-030	Spark killer
CR605	RWX-030	Spark killer
CR606	RWX-030	Spark killer
S8	RSG-047	Function switch
S9	RSG-047	Function switch
S10	RSG-047	Function switch
S11	RSG-047	Function switch
S12	RSG-048	Pause switch
SL601	RXP-042	Solenoid (RELEASE)
	RNF-084	Release plate
	RBH-152	Release spring

6.7 POWER AND OSCILLATION ASSEMBLY (RWR-059)



Foil side



		Q305 BASE	Q307 BASE	Q309 BASE	Q311 BASE
3.5m/S	STD	0.66V	0	0	0
	LH	0	0.66V	0	0
9.5m/S	STD	0	0	0	0.66V
	LH	0	0	0.66V	0

3.5m/S	STD	26.5V
	LH	30.8V
9.5m/S	STD	22.5V
	LH	25V

Parts List of Power and Oscillation Assembly (RWR-059)

TRANSFORMER AND COILS

Symbol	Part No.	Description
T301	RTD-013	Oscillator transformer
L301	RTF-014	Peaking coil
L302	RTF-014	Peaking coil
L303	RTF-013	Trap coil
L304	RTF-013	Trap coil

CAPACITORS

Symbol	Part No.	Description		
C301	CEA 4R7P 35	Electrolytic	4.7	35V
C302	CEA 4R7P 35	Electrolytic	4.7	35V
C303	CCDSL 470K 50	Ceramic	47p	50V
C304	CCDSL 470K 50	Ceramic	47p	50V
C305	CEA 470P 10	Electrolytic	47	10V
C306	CEA 470P 10	Electrolytic	47	10V
C307	CQMA 823K 50	Mylar	0.082	50V
C308	CQMA 823K 50	Mylar	0.082	50V
C309	CEA 2R2P 50	Electrolytic	2.2	50V
C310	CEA 2R2P 50	Electrolytic	2.2	50V
C311	CQMA 183K 50	Mylar	0.018	50V
C312	CQMA 183K 50	Mylar	0.018	50V
C313	CQMA 123K 50	Mylar	0.012	50V
C314	CQMA 123K 50	Mylar	0.012	50V
C315	CQMA 103K 50	Mylar	0.01	50V
C316	CQMA 103K 50	Mylar	0.01	50V
C317	CQMA 183K 50	Mylar	0.018	50V
C318	CQMA 183K 50	Mylar	0.018	50V
C319	CQMA 273K 50	Mylar	0.027	50V
C320	CQMA 273K 50	Mylar	0.027	50V
C321	CQMA 103K 50	Mylar	0.01	50V
C322	CQMA 103K 50	Mylar	0.01	50V
C323	CQMA 103K 50	Mylar	0.01	50V
C324	CQMA 103K 50	Mylar	0.01	50V
C325	RCE-014	Styrol	470p	50V
C326	RCE-014	Styrol	470p	50V
C327	CQMA 103K 50	Mylar	0.01	50V
C328	CQMA 103K 50	Mylar	0.01	50V
C329	CQSA 332J 125	Styrol	3300p	125V
C330	CQMA 104K 50	Mylar	0.1	50V
C331	CQSA 391J 250	Styrol	390p	250V
C332	RCE-003	Styrol	100p	50V
C333	RCE-003	Styrol	100p	50V
C334	CEA 101P 35	Electrolytic	100	35V
C335	CQMA 104K 50	Mylar	0.1	50V
C336	CEA 471P 35	Electrolytic	470	35V
C337	CEA 220P 16	Electrolytic	22	16V
C338	CEA 221P 25	Electrolytic	220	25V
C339	CQMA 473K 50	Mylar	0.047	50V
C340	CCDSL 101K 50	Ceramic	100p	50V
C341	CEA 101P 50	Electrolytic	100	50V
C342	CEA 471P 63	Electrolytic	470	63V
C343	CEA 471P 63	Electrolytic	470	63V
C345	CKDYF 103Z 50	Ceramic	0.01	50V

RESISTORS

Symbol	Part No.	Description		
VR301	C92-857	Semi-fixed	22k-B	
VR302	C92-857	Semi-fixed	22k-B	
VR303	C81-426	Semi-fixed	33k-B	
VR304	C81-426	Semi-fixed	33k-B	
R301	RD¼PS 333J	Carbon film	33k	
R302	RD¼PS 333J	Carbon film	33k	
R303	RD¼PS 563J	Carbon film	56k	
R304	RD¼PS 563J	Carbon film	56k	
R305	RD¼PS 152J	Carbon film	1.5k	
R306	RD¼PS 152J	Carbon film	1.5k	
R307	RD¼PS 104J	Carbon film	100k	
R308	RD¼PS 104J	Carbon film	100k	
R309	RD¼PS 392J	Carbon film	3.9k	
R310	RD¼PS 392J	Carbon film	3.9k	
R311	RD¼PS 271J	Carbon film	270	
R312	RD¼PS 271J	Carbon film	270	
R313	RD¼PS 334J	Carbon film	330k	
R314	RD¼PS 334J	Carbon film	330k	
R315	RD¼PS 333J	Carbon film	33k	
R316	RD¼PS 333J	Carbon film	33k	
R317	RD¼PS 470J	Carbon film	47	
R318	RD¼PS 470J	Carbon film	47	
R319	RD¼PS 680J	Carbon film	68	
R320	RD¼PS 680J	Carbon film	68	
R321	RD¼PS 202J	Carbon film	2k	
R322	RD¼PS 202J	Carbon film	2k	
R323	RD¼PS 473J	Carbon film	47k	
R324	RD¼PS 473J	Carbon film	47k	
R325	RD¼PS 473J	Carbon film	47k	
R326	RD¼PS 473J	Carbon film	47k	
R327	RD¼PS 473J	Carbon film	47k	
R328	RD¼PS 473J	Carbon film	47k	
R329	RD¼PS 473J	Carbon film	47k	
R330	RD¼PS 473J	Carbon film	47k	
R331	RD¼PS 470J	Carbon film	47	
R332	RD¼PS 223J	Carbon film	22k	
R334	RD¼PS 392J	Carbon film	3.9k	
R335	RD¼PS 623J	Carbon film	62k	
R336	RS1P 102J	Metal oxide	1k	1W
R337	RD¼PSF 331J	Carbon film	330	
R338	RD¼PS 221J	Carbon film	220	
R339	RD¼PS 332J	Carbon film	3.3k	
R340	RD¼PS 104J	Carbon film	100k	
R341	RD¼PS 332J	Carbon film	3.3k	
R342	RD¼PS 112J	Carbon film	1.1k	
R343	RD¼PS 332J	Carbon film	3.3k	
R344	RD¼PS 152J	Carbon film	1.5k	
R345	RD¼PS 222J	Carbon film	2.2k	
R346	RN1PSF 3R3J	Metal film	3.3	1W
R347	RD¼PS 183J	Carbon film	18k	

SEMICONDUCTORS

Symbol	Part No.	Description
Q301	2SC1344-D or E	Transistor
Q302	2SC1344-D or E	Transistor
Q303	2SC1213-B or C	Transistor
Q304	2SC1213-B or C	Transistor
Q305	2SC945-P or Q	Transistor
Q306	2SC945-P or Q	Transistor
Q307	2SC945-P or Q	Transistor
Q308	2SC945-P or Q	Transistor
Q309	2SC945-P or Q	Transistor
Q310	2SC945-P or Q	Transistor
Q311	2SC945-P or Q	Transistor
Q312	2SC945-P or Q	Transistor
Q313	2SD526-O	Transistor
Q314	2SD526-O	Transistor
Q315	2SC945-P or Q	Transistor
Q316	2SD526-O or Y	Transistor
D301	W06B	Diode
D302	W06B	Diode
D303	MI-152	Diode
D304	MI-152R	Diode
ZD301	WZ-071	Zener diode
TH301	D33A	Thermister

OTHERS

Symbol	Part No.	Description
RY301	RSR-019	Relay (24V)
	AKH-002	Tr socket
	REE-051	Insulator spacer

List of Changed Parts for Factory Modification

Symbol	Part No.	Description

Symbol	Part No.	Description		
R337	RD¼PSF 331J	Carbon film	330	
R338	RD¼PS 221J	Carbon film	220	
R339	RD¼PS 332J	Carbon film	3.3k	
R340	RD¼PS 104J	Carbon film	100k	
R341	RD¼PS 332J	Carbon film	3.3k	
R342	RD¼PS 112J	Carbon film	1.1k	
R343	RD¼PS 332J	Carbon film	3.3k	
R344	RD¼PS 152J	Carbon film	1.5k	
R345	RD¼PS 222J	Carbon film	2.2k	
R346	RN1PSF 3R3J	Metal film	3.3	1W
R347	RD¼PS 183J	Carbon film	18k	

SEMICONDUCTORS

Symbol	Part No.	Description
Q301	2SC1344-D or E	Transistor
Q302	2SC1344-D or E	Transistor
Q303	2SC1213-B or C	Transistor
Q304	2SC1213-B or C	Transistor
Q305	2SC945-P or Q	Transistor
Q306	2SC945-P or Q	Transistor
Q307	2SC945-P or Q	Transistor
Q308	2SC945-P or Q	Transistor
Q309	2SC945-P or Q	Transistor
Q310	2SC945-P or Q	Transistor
Q311	2SC945-P or Q	Transistor
Q312	2SC945-P or Q	Transistor
Q313	2SD526-O	Transistor
Q314	2SD526-O	Transistor
Q315	2SC945-P or Q	Transistor
Q316	2SD526-O or Y	Transistor
D301	W06B	Diode
D302	W06B	Diode
D303	MI-152	Diode
D304	MI-152R	Diode
ZD301	WZ-071	Zener diode
TH301	D33A	Thermister

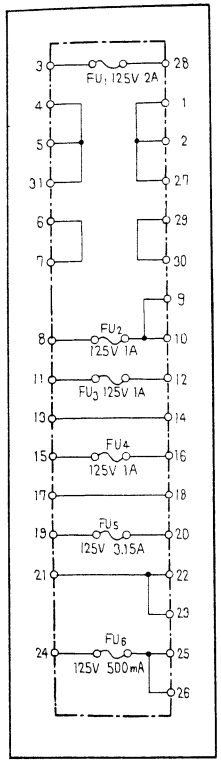
OTHERS

Symbol	Part No.	Description
RY301	RSR-019	Relay (24V)
	AKH-002	Tr socket
	REE-051	Insulator spacer

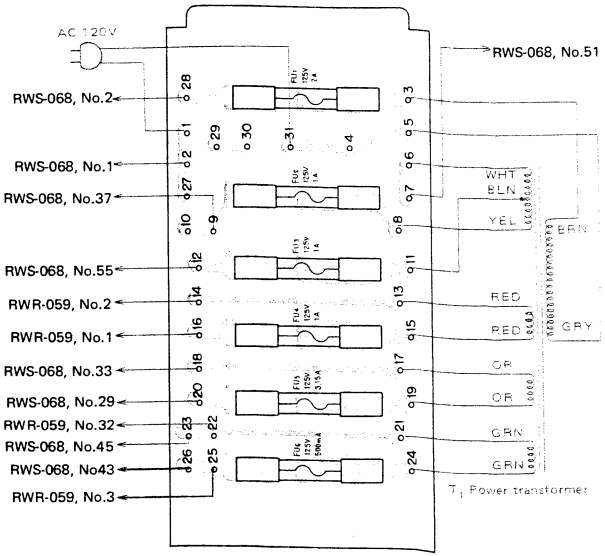
List of Changed Parts for Factory Modification

Symbol	Part No.	Description

6.8 FUSE ASSEMBLY (RWX-170)



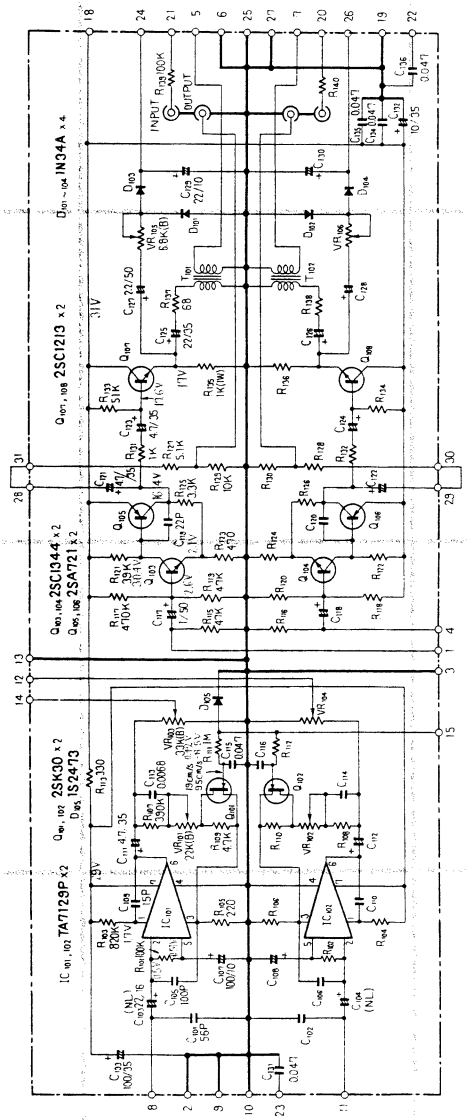
Foil side

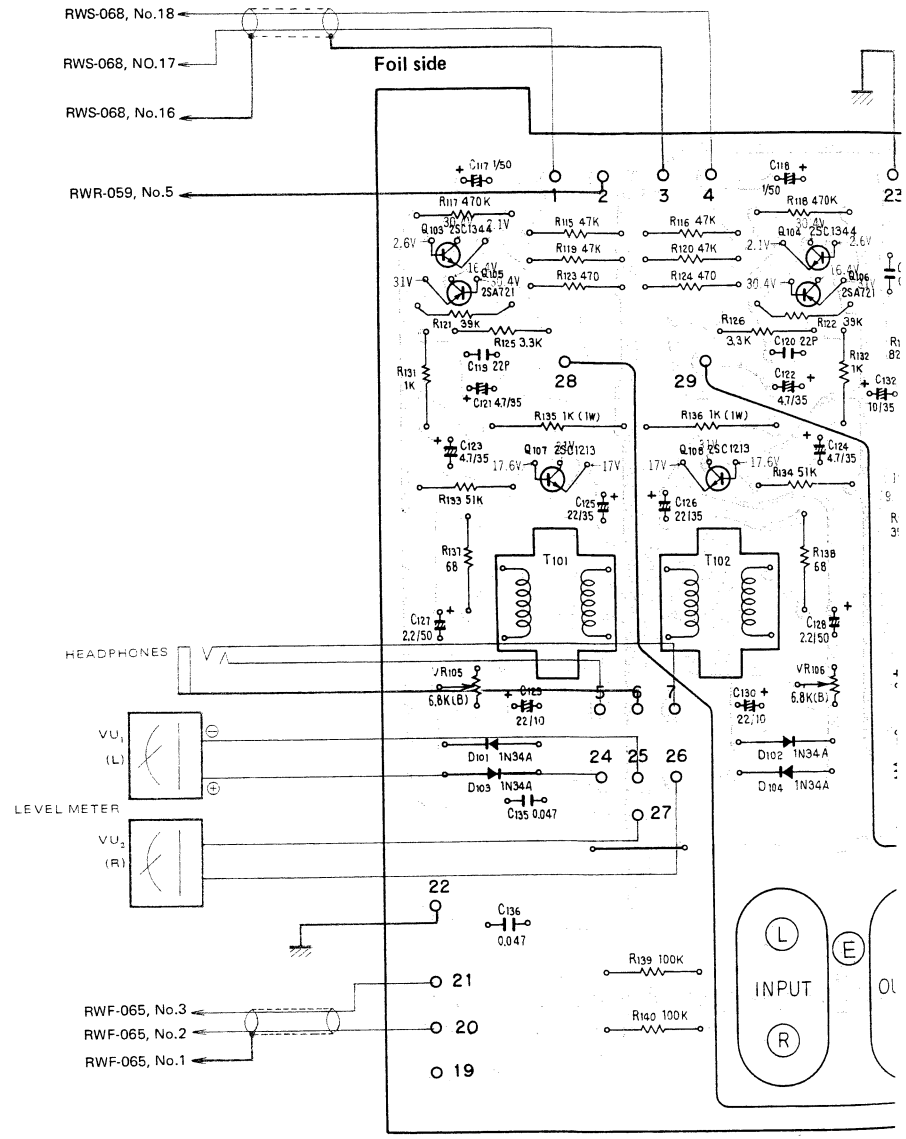


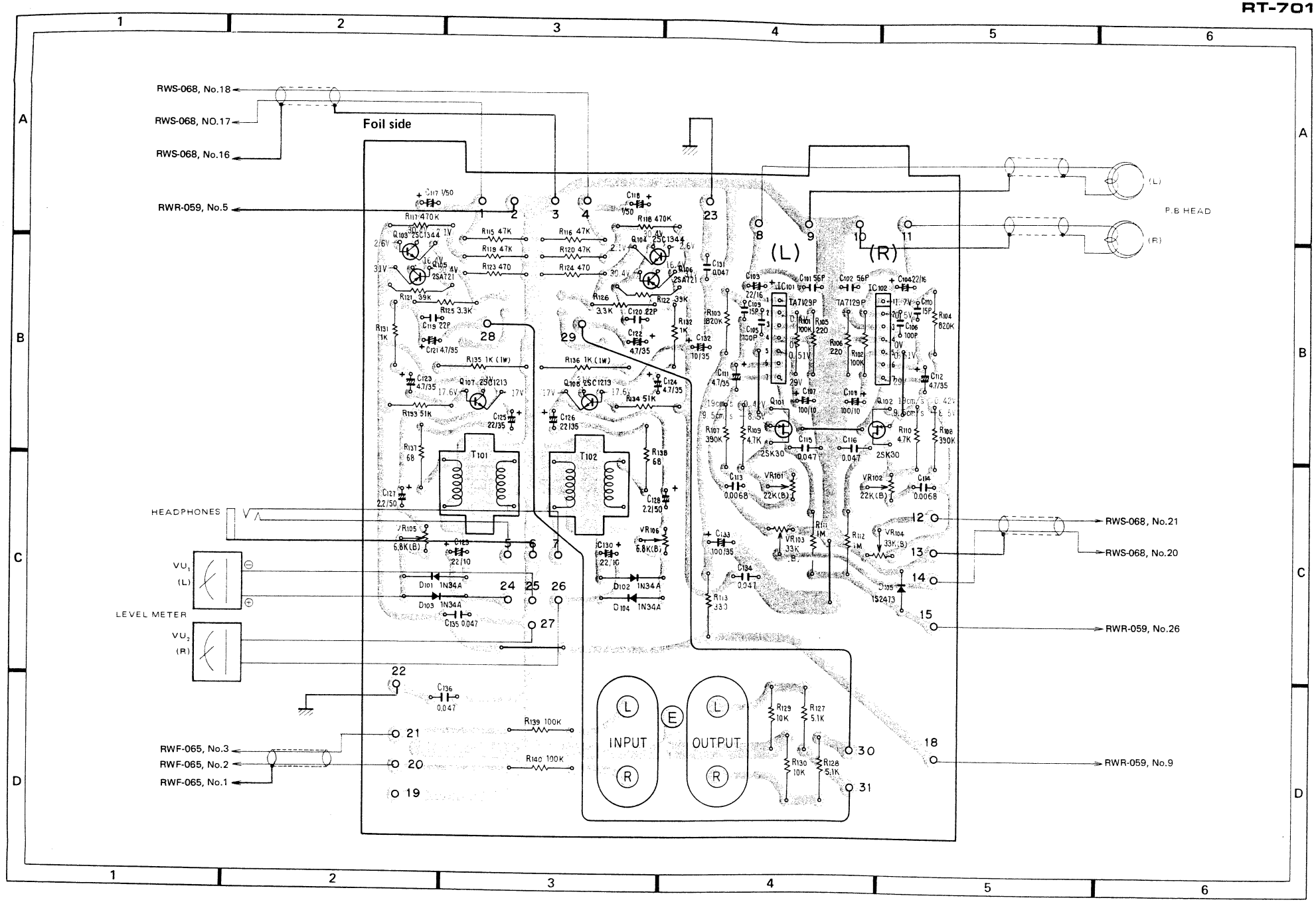
Parts List

Symbol	Part No.	Description	
FU1	REK-055	Fuse	2A
FU2	REK-051	Fuse	1A
FU3	REK-051	Fuse	1A
FU4	REK-051	Fuse	1A
FU5	REK-044	Fuse	3.15A
FU6	REK-048	Fuse	0.5A
	RKR-017	Fuse clip	

6.9 PLAYBACK AMPLIFIER ASSEMBLY (RWF-081)






Foil side
RWS-068, No.18
RWS-068, NO.17
RWS-068, No.16
RWR-059, No.5
RWF-065, No.3
RWF-065, No.2
RWF-065, No.1
HEADPHONES
LEVEL METER
VU1 (L)
VU2 (R)
P.B HEAD
(L)
(R)
RWS-068, No.21
RWS-068, No.20
RWR-059, No.26
RWR-059, No.9
INPUT
OUTPUT
T101
T102
IC101 TA7129P
IC102 TA7129P
2SC1344
2SA721
2SC1213
2SK30
1N34A
1S2473

Parts List of Playback Amplifier Assembly (RWF-081)

TRANSFORMERS

Symbol	Part No.	Description
T101	RTV-009	Matching transformer
T102	RTV-009	Matching transformer

CAPACITORS

Symbol	Part No.	Description		
C101	RCE-004	Styrol	56p	50V
C102	RCE-004	Styrol	56p	50V
C103	RCH-027	Electrolytic	22	16V
C104	RCH-027	Electrolytic	22	16V
C105	CCDSL 101K 50	Ceramic	100p	50V
C106	CCDSL 101K 50	Ceramic	100p	50V
C107	CEA 101P 10	Electrolytic	100	10V
C108	CEA 101P 10	Electrolytic	100	10V
C109	CCDSL 150K 50	Ceramic	15p	50V
C110	CCDSL 150K 50	Ceramic	15p	50V
C111	CEA 4R7P 35	Electrolytic	4.7	35V
C112	CEA 4R7P 35	Electrolytic	4.7	35V
C113	CQMA 682K 50	Mylar	0.0068	50V
C114	CQMA 682K 50	Mylar	0.0068	50V
C115	CKDYF 473Z 50	Ceramic	0.047	50V
C116	CKDYF 473Z 50	Ceramic	0.047	50V
C117	CEA 010P 50	Electrolytic	1	50V
C118	CEA 010P 50	Electrolytic	1	50V
C119	CCDSL 220K 50	Ceramic	22p	50V
C120	CCDSL 220K 50	Ceramic	22p	50V
C121	CEA 4R7P 35	Electrolytic	4.7	35V
C122	CEA 4R7P 35	Electrolytic	4.7	35V
C123	CEA 4R7P 35	Electrolytic	4.7	35V
C124	CEA 4R7P 35	Electrolytic	4.7	35V
C125	CEA 220P 35	Electrolytic	22	35V
C126	CEA 220P 35	Electrolytic	22	35V
C127	CEA 2R2P 50	Electrolytic	2.2	50V
C128	CEA 2R2P 50	Electrolytic	2.2	50V
C129	CEA 220P 10	Electrolytic	22	10V
C130	CEA 220P 10	Electrolytic	22	10V
C131	CKDYF 473Z 50	Ceramic	0.047	50V
C132	CEA 100P 35	Electrolytic	10	35V
C133	CEA 101P 35	Electrolytic	100	35V
C134	CKDYF 473Z 50	Ceramic	0.047	50V
C135	CKDYF 473Z 50	Ceramic	0.047	50V
C136	CKDYF 473Z 50	Ceramic	0.047	50V

RESISTORS

Symbol	Part No.	Description	
VR101	C92-857	Semi-fixed	22k-B
VR102	C92-857	Semi-fixed	22k-B
VR103	C81-426	Semi-fixed	33k-B
VR104	C81-426	Semi-fixed	22k-B
VR105	RCP-001	Semi-fixed	10k-B
VR106	RCP-001	Semi-fixed	10k-B
R101	RD¼PS 104J	Carbon film	100k
R102	RD¼PS 104J	Carbon film	100k
R103	RD¼PS 824J	Carbon film	820k
R104	RD¼PS 824J	Carbon film	820k
R105	RD¼PS 221J	Carbon film	220
R106	RD¼PS 221J	Carbon film	220
R107	RD¼PS 394J	Carbon film	390k
R108	RD¼PS 394J	Carbon film	390k
R109	RD¼PS 472J	Carbon film	4.7k
R110	RD¼PS 472J	Carbon film	4.7k
R111	RD¼PS 105J	Carbon film	1M
R112	RD¼PS 105J	Carbon film	1M
R113	RD¼PSF 331J	Carbon film	330
R114			
R115	RD¼PS 473J	Carbon film	47k
R116	RD¼PS 473J	Carbon film	47k
R117	RD¼PS 474J	Carbon film	470k
R118	RD¼PS 474J	Carbon film	470k
R119	RD¼PS 473J	Carbon film	47k
R120	RD¼PS 473J	Carbon film	47k
R121	RD¼PS 393J	Carbon film	39k
R122	RD¼PS 393J	Carbon film	39k
R123	RD¼PS 471J	Carbon film	470
R124	RD¼PS 471J	Carbon film	470
R125	RD¼PS 332J	Carbon film	3.3k
R126	RD¼PS 332J	Carbon film	3.3k
R127	RD¼PS 512J	Carbon film	5.1k
R128	RD¼PS 512J	Carbon film	5.1k
R129	RD¼PS 103J	Carbon film	10k
R130	RD¼PS 103J	Carbon film	10k
R131	RD¼PS 102J	Carbon film	1k
R132	RD¼PS 102J	Carbon film	1k
R133	RD¼PS 513J	Carbon film	51k
R134	RD¼PS 513J	Carbon film	51k
R135	RS1P 102J	Metal oxide	1k 1W
R136	RS1P 102J	Metal oxide	1k 1W
R137	RD¼PS 680J	Carbon film	68
R138	RD¼PS 680J	Carbon film	68
R139	RD¼PS 104J	Carbon film	100k
R140	RD¼PS 104J	Carbon film	100k

SEMICONDUCTORS

Symbol	Part No.	Description
IC101	TA7129P	IC
IC102	TA7129P	IC
Q101	2SK30A-Y or O	FET
Q102	2SK30A-Y or O	FET
Q103	2SC1344-D or E	Transistor
Q104	2SC1344-D or E	Transistor
Q105	2SA721-T or U	Transistor
Q106	2SA721-T or U	Transistor
Q107	2SC1213-B or C	Transistor
Q108	2SC1213-B or C	Transistor
D101	IN34A	Diode
D102	IN34A	Diode
D103	IN34A	Diode
D104	IN34A	Diode
D105	1S2473	Diode

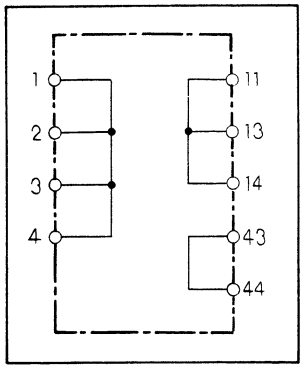
OTHER

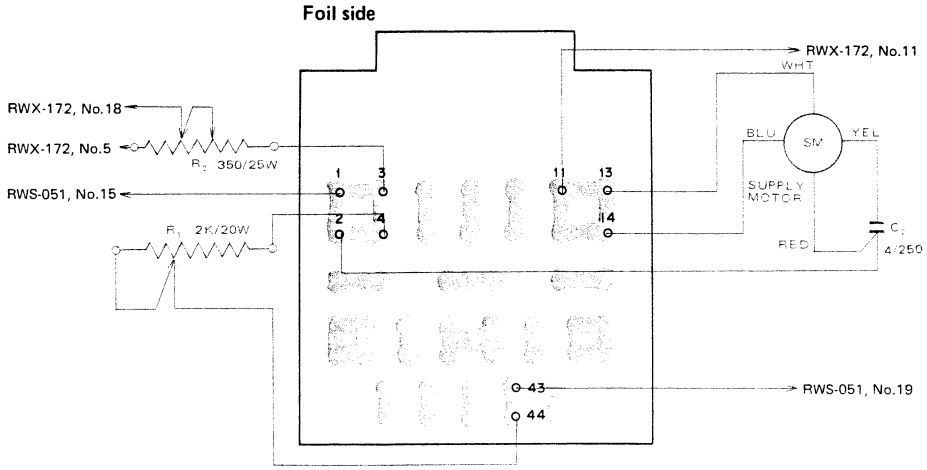
Symbol	Part No.	Description
	RKB-011	4P pinjack

List of Changed Parts for Factory Modification

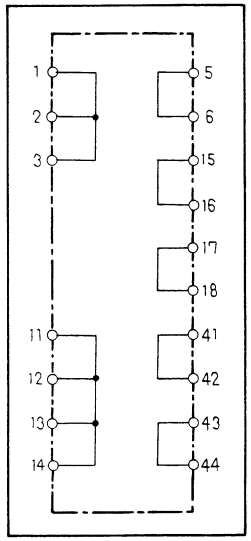
Symbol	Part No.	Description

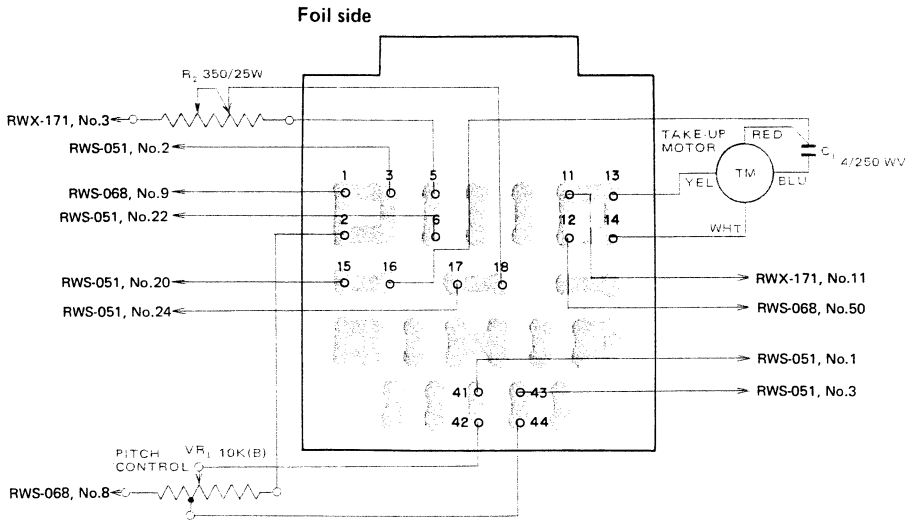
6.10 CONNECTOR ASSEMBLY L (RWX-171)



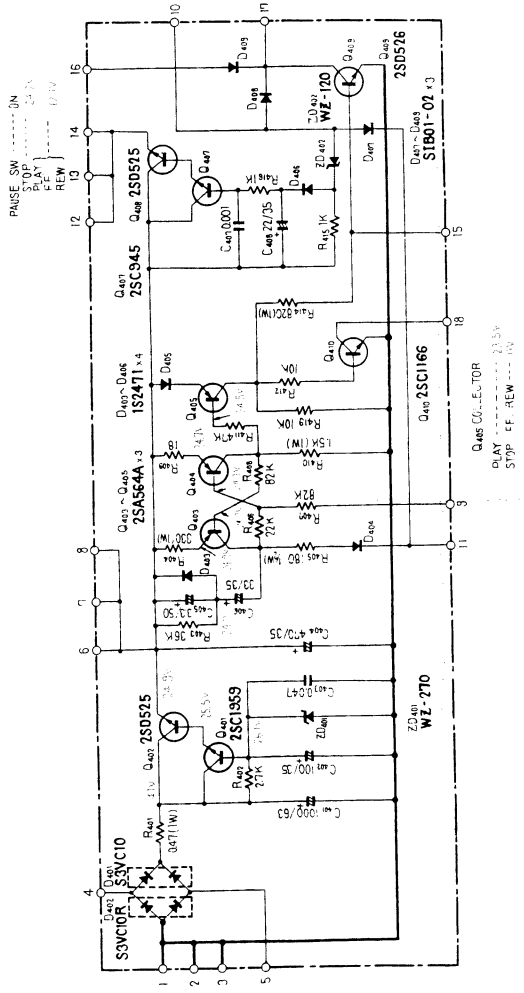


6.11 CONNECTOR ASSEMBLY R (RWX-172)





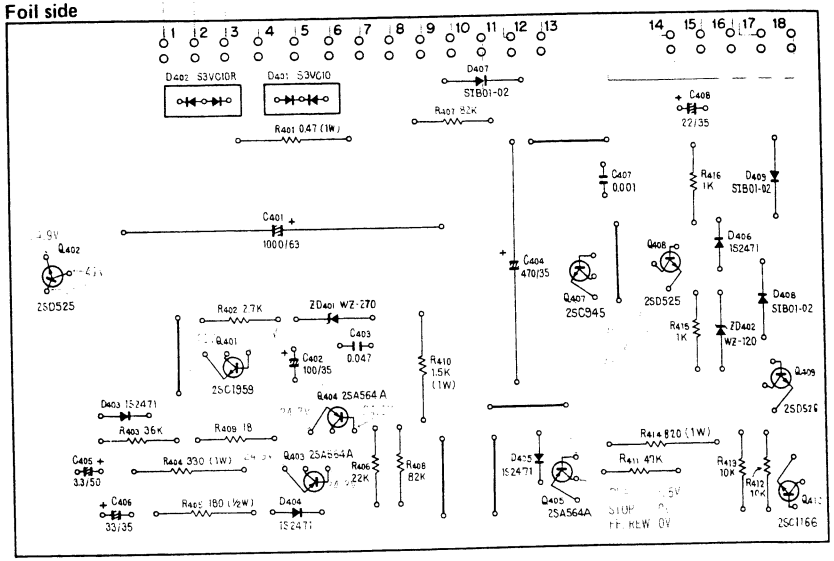
6.12 CONTROL ASSEMBLY (RWG-070)

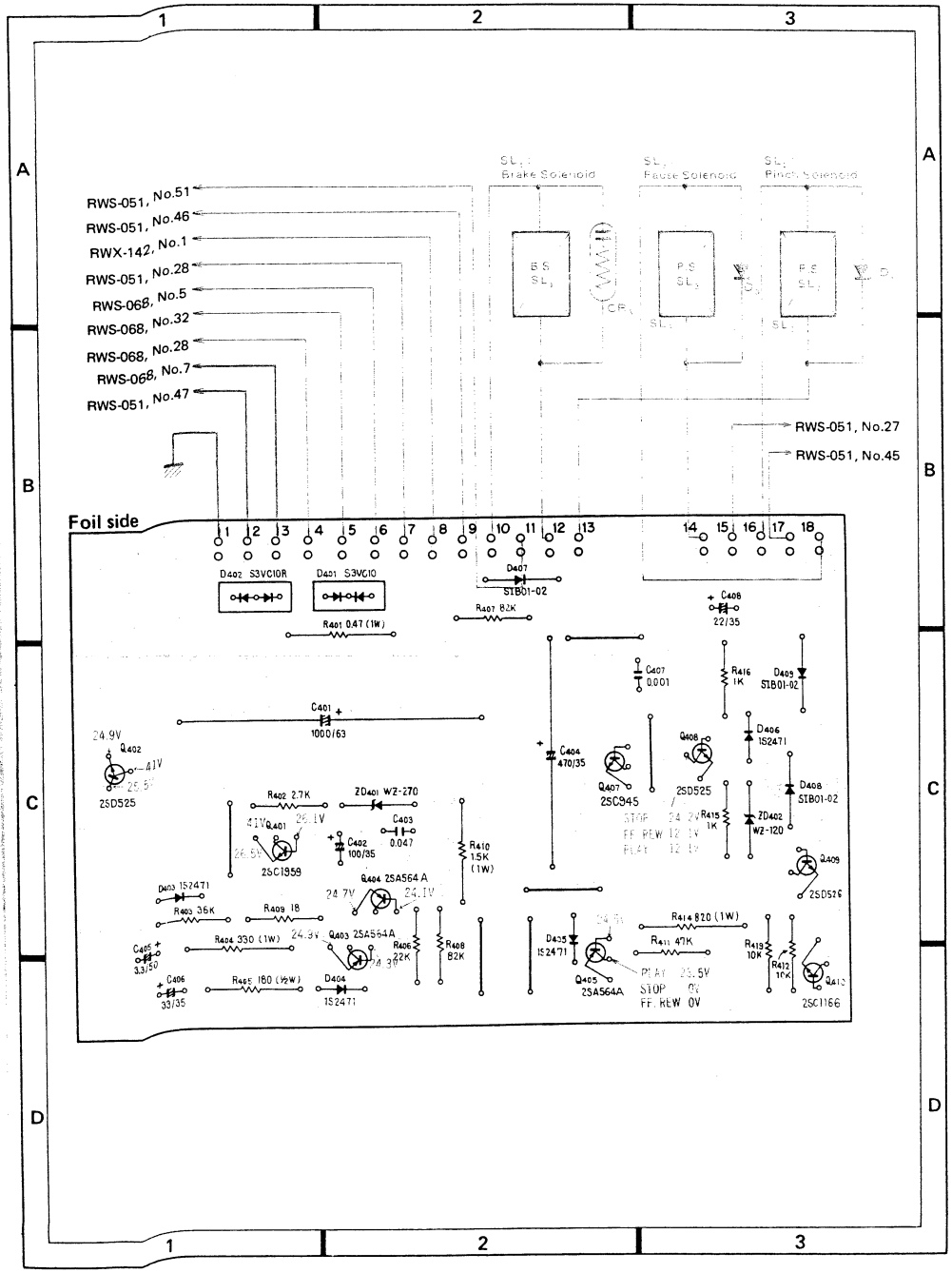


RWS-051, No.51
RWS-051, No.46
RWX-142, No.1
RWS-051, No.28
RWS-068, No.5
RWS-068, No.32
RWS-068, No.28
RWS-068, No.7
RWS-051, No.47

RWS-051, No.27
RWS-051, No.45

Foil side





Parts List

CAPACITORS

Symbol	Part No.	Description		
C401	CEB 102P 63	Electrolytic	1 000	63V
C402	CEA 101P 35	Electrolytic	100	35V
C403	CQMA 473K 50	Mylar	0.047	50V
C404	CEB 471P 35	Electrolytic	470	35V
C405	CEA 3R3P 50	Electrolytic	3.3	50V
C406	CEA 330P 35	Electrolytic	33	35V
C407	CQMA 102K 50	Mylar	0.001	50V
C408	CEA 220P 35	Electrolytic	22	35V

RESISTORS

Symbol	Part No.	Description		
R401	RN1PSF R47J	Metal film	0.47	1W
R402	RD¼PS 272J	Carbon film	2.7k	
R403	RD¼PS 363J	Carbon film	36k	
R404	RS1PSF 331J	Metal oxide	330	1W
R405	RD½PSF 181J	Carbon film	180	½W
R406	RD¼PS 223J	Carbon film	22k	
R407	RD¼PS 823J	Carbon film	82k	
R408	RD¼PS 823J	Carbon film	82k	
R409	RD¼PS 180J	Carbon film	18	
R410	RS1P 152J	Metal oxide	1.5k	1W
R411	RD¼PS 473J	Carbon film	47k	
R412	RD¼PS 103J	Carbon film	10k	
R414	RS1P 821J	Metal oxide	820	1W
R415	RD¼PS 102J	Carbon film	1k	
R416	RD¼PS 102J	Carbon film	1k	
R419	RD¼PS 103J	Carbon film	10k	

SEMICONDUCTORS

Symbol	Part No.	Description
Q401	2SC1959-Y	Transistor
Q402	2SD525-O or Y	Transistor
Q403	2SA564A-R or S	Transistor
Q404	2SA564A-R or S	Transistor
Q405	2SA564A-R or S	Transistor
Q407	2SC945-P or Q	Transistor
Q408	2SD525-O or Y	Transistor
Q409	2SD526-O or Y	Transistor
Q410	2SC1166-O or Y	Transistor
D401	S3VC10	Diode
D402	S3VC10R	Diode
D403	1S2471	Diode
D404	1S2471	Diode
D405	1S2471	Diode
D406	1S2471	Diode
D407	SIB01-02	Diode
D408	SIB01-02	Diode
D409	SIB01-02	Diode
ZD401	WZ-270	Zener Diode
ZD402	WZ-120	Zener Diode

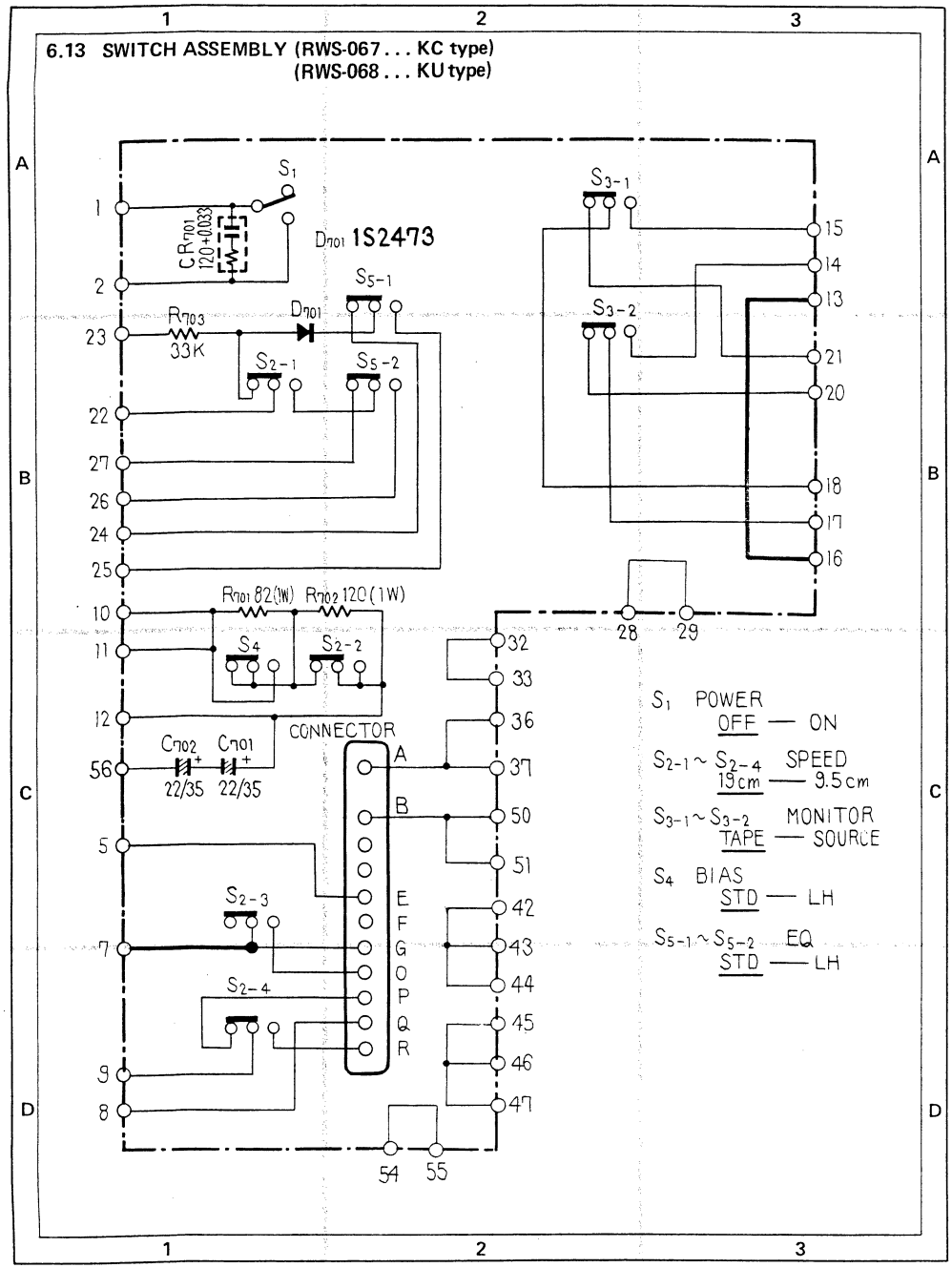
OTHERS

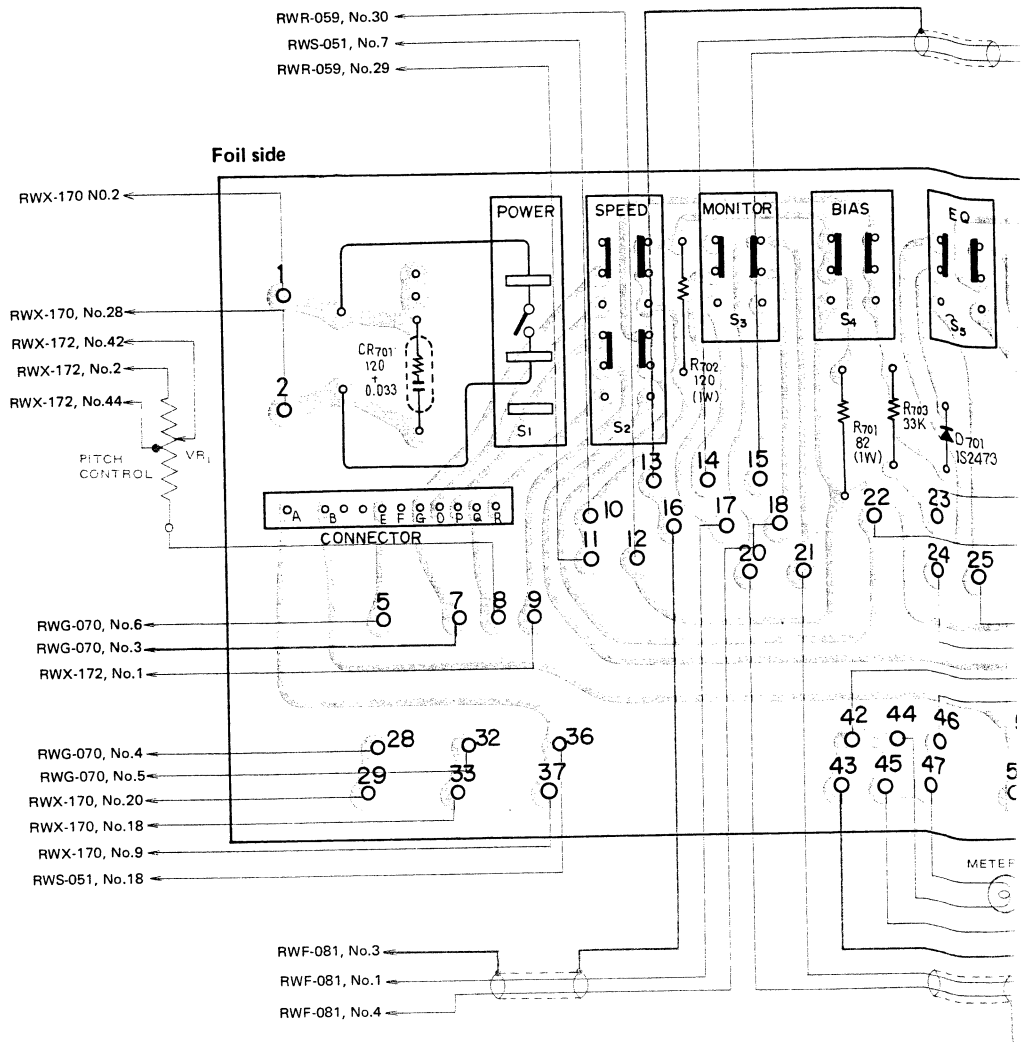
Symbol	Part No.	Description
	RNF-083	Heat sink
	REE-051	Insulator spacer
	AKH-002	Tr socket

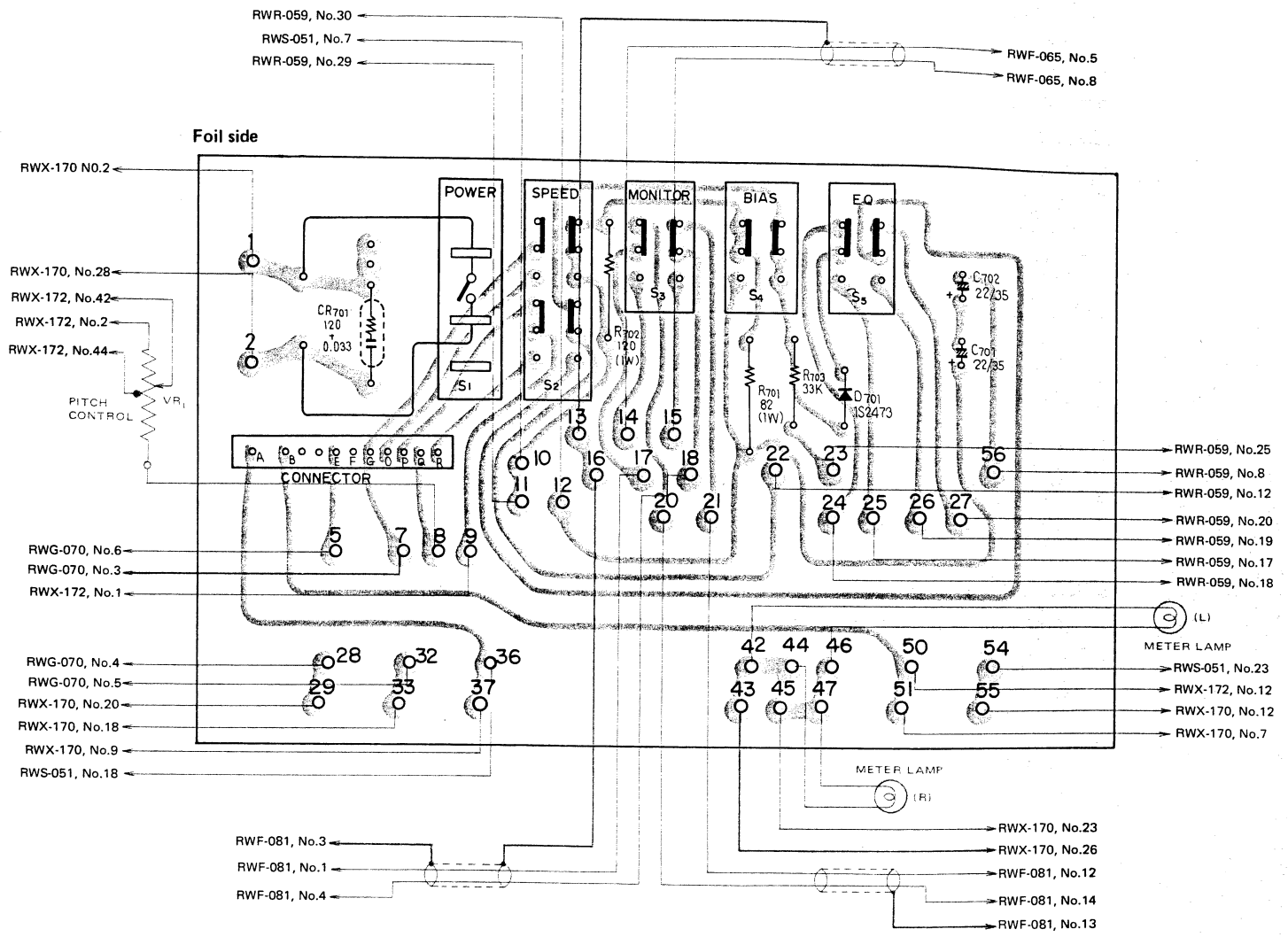
List of Changed Parts for Factory Modification

Symbol	Part No.	Description

6.13 SWITCH ASSEMBLY (RWS-067 . . . KC type)
(RWS-068 . . . KU type)







Parts List

CAPACITORS

Symbol	Part No.	Description		
C701	CEA 220P 35	Electrolytic	22	35V
C702	CEA 220P 35	Electrolytic	22	35V

RESISTORS

Symbol	Part No.	Description		
R701	RS1P 820J	Metal oxide	82	1W
R702	RS1P 121J	Metal oxide	120	1W
R703	RD¼PS 333J	Carbon film	33k	

SWITCHES

Symbol	Part No.	Description
S1	RSG-049	Push switch
S2	RSG-049	Push switch
S3	RSG-049	Push switch
S4	RSG-049	Push switch
S5	RSG-049	Push switch

OTHERS

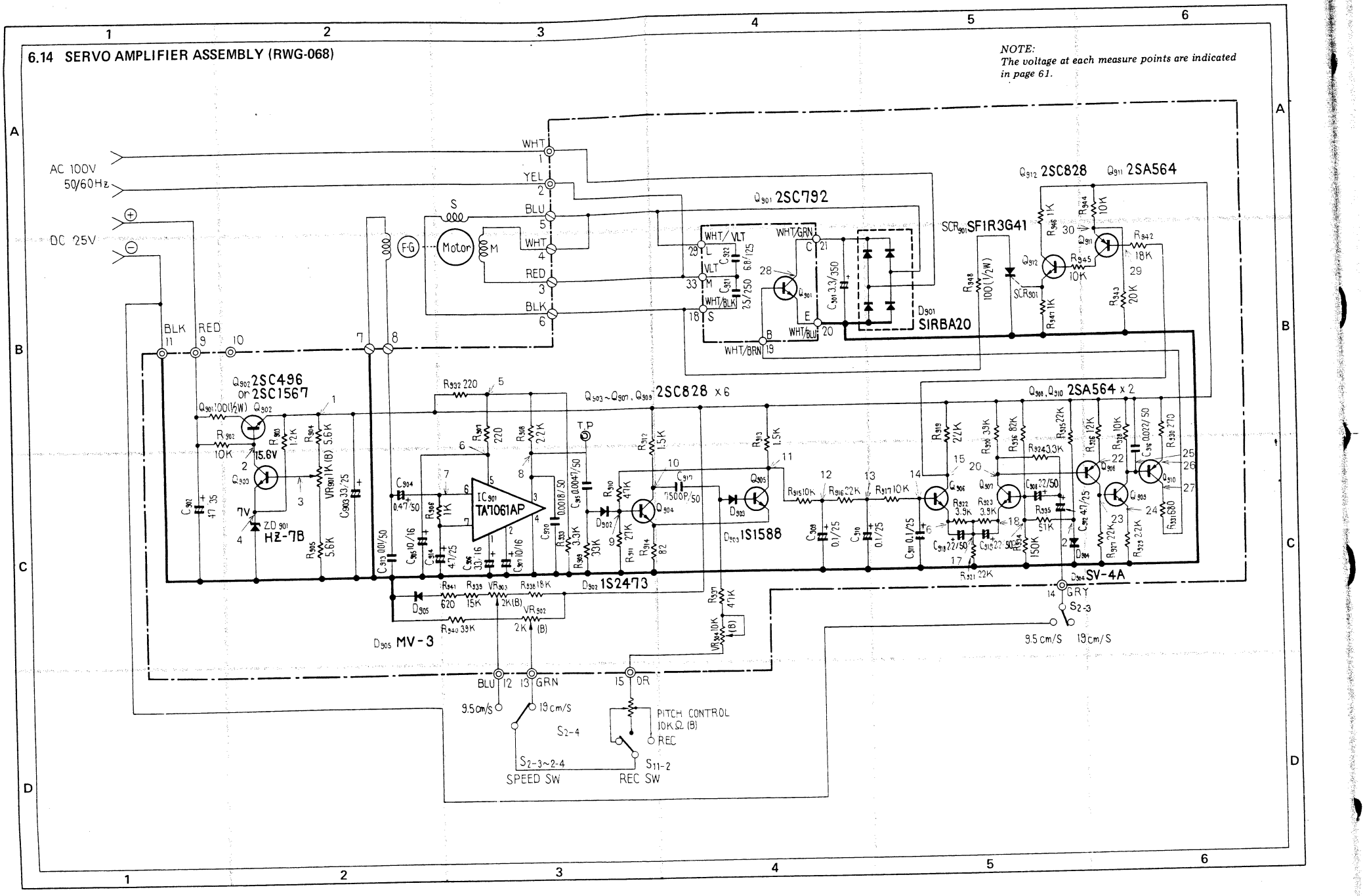
Symbol	Part No.	Description
CR701	RWX-148	Spark killer (KC)
CR701	RWX-150	Spark killer (KC)
CR701	RWX-109	Spark killer (KU)
	RKP-018	Connector

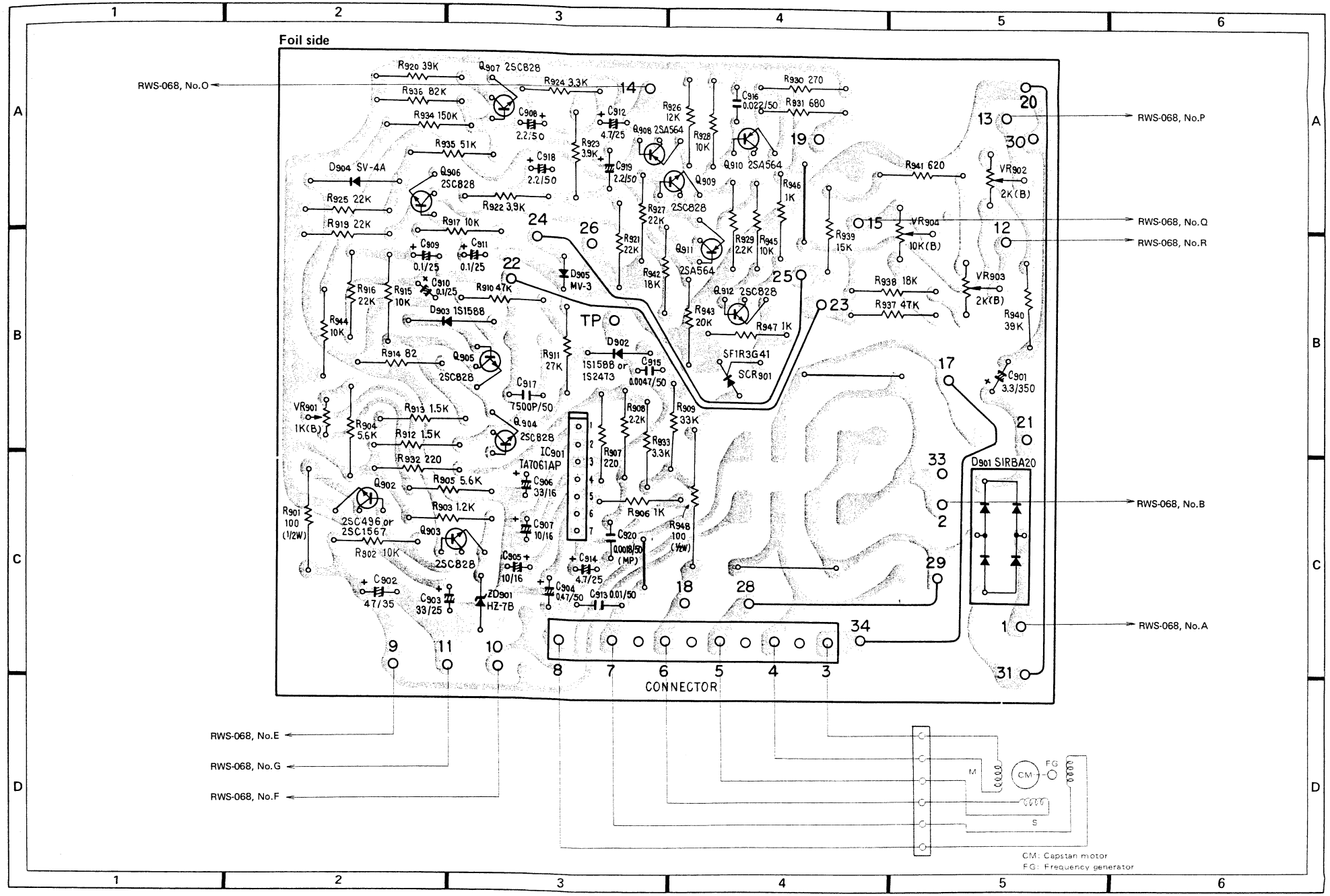
List of Changed Parts for Factory Modification

Symbol	Description	Part No.

6.14 SERVO AMPLIFIER ASSEMBLY (RWG-068)

NOTE:
The voltage at each measure points are indicated in page 61.




Foil side
RWS-068, No.O
RWS-068, No.P
RWS-068, No.Q
RWS-068, No.R
RWS-068, No.B
RWS-068, No.A
RWS-068, No.E
RWS-068, No.G
RWS-068, No.F
CONNECTOR
TP
IC901 TA7061AP
D901 SIRBA20
SCR901 SF1R3G41
D902 1S1588 or 1S2473
D903 1S1588
D904 SV-4A
D905 MV-3
ZD901 HZ-7B
Q902 2SC496 or 2SC1567
Q903 2SC828
Q904 2SC828
Q905 2SC828
Q906 2SC828
Q907 2SC828
Q908 2SA564
Q909 2SA564
Q910 2SA564
Q911 2SA564
Q912 2SC828
R901 100 (1/2W)
R902 10K
R903 1.2K
R904 5.6K
R905 5.6K
R906 1K
R907 220
R908 2.2K
R909 33K
R910 47K
R911 27K
R912 1.5K
R913 1.5K
R914 82
R915 10K
R916 22K
R917 10K
R919 22K
R920 39K
R922 3.9K
R923 3.9K
R924 3.3K
R925 22K
R926 12K
R927 22K
R928 10K
R929 2.2K
R930 270
R931 680
R932 220
R933 3.3K
R934 150K
R935 51K
R936 82K
R937 47K
R938 18K
R939 15K
R940 39K
R941 620
R942 18K
R943 20K
R944 10K
R945 10K
R946 1K
R947 1K
R948 100 (1/2W)
VR901 1K(B)
VR902 2K(B)
VR903 2K(B)
VR904 10K(B)
C901 3.3/350
C902 47/35
C903 33/25
C904 0.47/50
C905 10/16
C906 33/16
C907 10/16
C908 2.2/50
C909 0.1/25
C910 0.1/25
C911 0.1/25
C912 4.7/25
C913 0.01/50
C914 4.7/25
C915 0.0047/50
C916 0.022/50
C917 7500P/50
C918 2.2/50
C919 2.2/50
C920 0.0018/50 (MP)
M
CM
FG
S
CM: Capstan motor
FG: Frequency generator

The Measurement Voltage of Servo Amplifier (RWG-068)

- The number of measurement points are indicated on page 57.
- The motor is non load situation.
- Prepare the high input impedance meter for measure the points 13 ~ 22.

Measurement point	Measurement Voltage (V)
1	15.0
2	15.6
3	7.7
4	7.0
5	10.8
6	7.6
7	2.0 (DC ingredient)
8	Fig. 3
9	Fig. 4
10	Fig. 5
11	Fig. 6
12	Fig. 7
13	6.1 (DC ingredient)
14	6.1 (DC ingredient)
15	10.8
16	5.6
17	4.8
18	4.9
19	5.5
20	14.1
21	1.42
22	14.8
23	0.7 (0.66)
24	0.14 (0.11)
25	14.6 (14.7)
26	0.71 (0.56)
27	15
28	Fig. 8
29	10.8
30	10.1

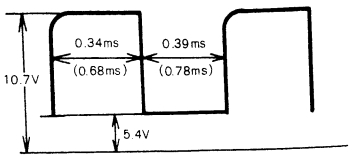


Fig. 3

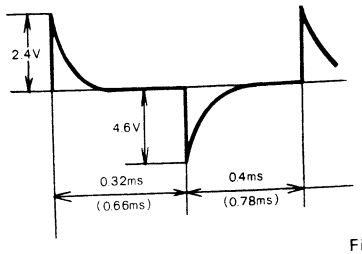


Fig. 4

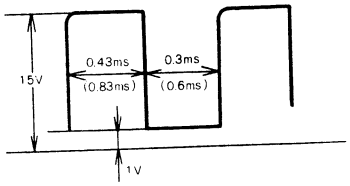


Fig. 5

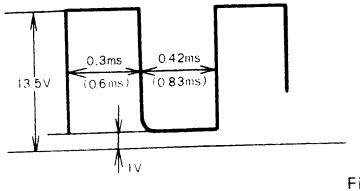


Fig. 6

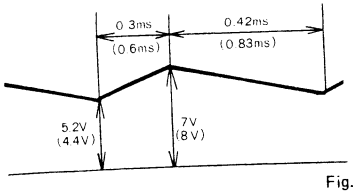


Fig. 7

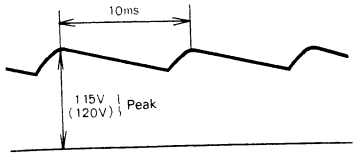


Fig. 8

Parts List of Servo Amplifier Assembly (RWG-068)

CAPACITORS

Symbol	Part No.	Description		
C901	RCH-029	Electrolytic	3.3	350V
C902	CEA 470P 35	Electrolytic	47	35V
C903	CEA 330P 25	Electrolytic	33	25V
C904	CEA 0R47P 50	Electrolytic	0.47	50V
C905	CEA 100P 16	Electrolytic	10	16V
C906	CEA 330P 16	Electrolytic	33	16V
C907	CEA 100P 16	Electrolytic	10	16V
C908	RCH-032	Electrolytic	2.2	50V
C909	CSSA 0R1M 25	Electrolytic	0.1	25V
C910	CSSA 0R1M 25	Electrolytic	0.1	25V
C911	CSSA 0R1M 25	Electrolytic	0.1	25V
C912	RCH-033	Electrolytic	4.7	25V
C913	CQMA 103K 50	Mylar	0.01	50V
C914	CEA 4R7P 25	Electrolytic	4.7	25V
C915	CQMA 472K 50	Mylar	0.0047	50V
C916	CQMA 223K 50	Mylar	0.022	50V
C917	RCE-027	Styrol	0.0075	50V
C918	RCH-032	Electrolytic	2.2	50V
C919	RCH-032	Electrolytic	2.2	50V
C920	CQMA 182K 50	Mylar	0.0018	50V
C921		Metallized paper	2.5	250V
C922		Electrolytic	6.8	125V

RESISTORS

Symbol	Part No.	Description		
VR901	RCP-036	Semi-fixed	1k-B	
VR902	RCP-034	Semi-fixed	2k-B	
VR903	RCP-034	Semi-fixed	2k-B	
VR904	RCP-035	Semi-fixed	10k-B	
R901	RD¼PSF 101K	Carbon film	100	¼W
R902	RD¼PSF 103K	Carbon film	10k	
R903	RD¼PS 122J	Carbon film	1.2k	
R904	RD¼PS 562J	Carbon film	5.6k	
R905	RD¼PS 562J	Carbon film	5.6k	
R906	RD¼PS 102J	Carbon film	1k	
R907	RD¼PS 221J	Carbon film	220	
R908	RD¼PS 222J	Carbon film	2.2k	
R909	RD¼PS 333J	Carbon film	33k	
R910	RD¼PS 473J	Carbon film	47k	
R911	RD¼PS 273J	Carbon film	27k	
R912	RD¼PS 152J	Carbon film	1.5k	
R913	RD¼PS 152J	Carbon film	1.5k	
R914	RD¼PS 820J	Carbon film	82	
R915	RD¼PS 103J	Carbon film	10k	
R916	RD¼PS 223J	Carbon film	22k	
R917	RD¼PS 103J	Carbon film	10k	
R918	.....	.....		

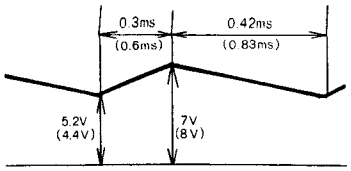


Fig. 7

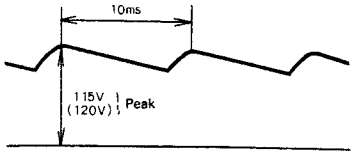


Fig. 8

Parts List of Servo Amplifier Assembly (RWG-068)

CAPACITORS

Symbol	Part No.	Description		
C901	RCH-029	Electrolytic	3.3	350V
C902	CEA 470P 35	Electrolytic	47	35V
C903	CEA 330P 25	Electrolytic	33	25V
C904	CEA 0R47P 50	Electrolytic	0.47	50V
C905	CEA 100P 16	Electrolytic	10	16V
C906	CEA 330P 16	Electrolytic	33	16V
C907	CEA 100P 16	Electrolytic	10	16V
C908	RCH-032	Electrolytic	2.2	50V
C909	CSSA 0R1M 25	Electrolytic	0.1	25V
C910	CSSA 0R1M 25	Electrolytic	0.1	25V
C911	CSSA 0R1M 25	Electrolytic	0.1	25V
C912	RCH-033	Electrolytic	4.7	25V
C913	CQMA 103K 50	Mylar	0.01	50V
C914	CEA 4R7P 25	Electrolytic	4.7	25V
C915	CQMA 472K 50	Mylar	0.0047	50V
C916	CQMA 223K 50	Mylar	0.022	50V
C917	RCE-027	Styrol	0.0075	50V
C918	RCH-032	Electrolytic	2.2	50V
C919	RCH-032	Electrolytic	2.2	50V
C920	CQMA 182K 50	Mylar	0.0018	50V
C921		Metallized paper	2.5	250V
C922		Electrolytic	6.8	125V

RESISTORS

Symbol	Part No.	Description		
VR901	RCP-036	Semi-fixed	1k-B	
VR902	RCP-034	Semi-fixed	2k-B	
VR903	RCP-034	Semi-fixed	2k-B	
VR904	RCP-035	Semi-fixed	10k-B	
R901	RD½PSF 101K	Carbon film	100	½W
R902	RD¼PSF 103K	Carbon film	10k	
R903	RD¼PS 122J	Carbon film	1.2k	
R904	RD¼PS 562J	Carbon film	5.6k	
R905	RD¼PS 562J	Carbon film	5.6k	
R906	RD¼PS 102J	Carbon film	1k	
R907	RD¼PS 221J	Carbon film	220	
R908	RD¼PS 222J	Carbon film	2.2k	
R909	RD¼PS 333J	Carbon film	33k	
R910	RD¼PS 473J	Carbon film	47k	
R911	RD¼PS 273J	Carbon film	27k	
R912	RD¼PS 152J	Carbon film	1.5k	
R913	RD¼PS 152J	Carbon film	1.5k	
R914	RD¼PS 820J	Carbon film	82	
R915	RD¼PS 103J	Carbon film	10k	
R916	RD¼PS 223J	Carbon film	22k	
R917	RD¼PS 103J	Carbon film	10k	
R918	.....	.....		
R919	RD¼PS 223J	Carbon film	22k	
R920	RD¼PS 393J	Carbon film	39k	
R921	RD¼PS 223J	Carbon film	22k	
R922	RD¼PS 392J	Carbon film	3.9k	
R923	RD¼PS 392J	Carbon film	3.9k	
R924	RD¼PS 332J	Carbon film	3.3k	
R925	RD¼PS 223J	Carbon film	22k	
R926	RD¼PS 123J	Carbon film	12k	
R927	RD¼PS 223J	Carbon film	22k	
R928	RD¼PS 103J	Carbon film	10k	
R929	RD¼PS 222J	Carbon film	2.2k	
R930	RD¼PS 271J	Carbon film	270	
R931	RD¼PS 681J	Carbon film	680	
R932	RD¼PS 221J	Carbon film	220	
R933	RD¼PS 332J	Carbon film	3.3k	
R934	RD¼PS 154J	Carbon film	150k	
R935	RN¼PS 513G	Metal film	51k	
R936	RN¼PS 823G	Metal film	82k	
R937	RN¼PS 473G	Metal film	47k	
R938	RN¼PS 183G	Metal film	18k	
R939	RN¼PS 153G	Metal film	15k	
R940	RN¼PS 393G	Metal film	39k	
R941	RD¼PS 621J	Carbon film	620	
R942	RD¼PS 183J	Carbon film	18k	
R943	RD¼PS 203J	Carbon film	20k	
R944	RD¼PS 103J	Carbon film	10k	
R945	RD¼PS 103J	Carbon film	10k	
R946	RD¼PS 102J	Carbon film	1k	
R947	RD¼PS 102J	Carbon film	1k	
R948	RD½PSF 101K	Carbon film	100	½W

SEMICONDUCTORS

Symbol	Part No.	Description
IC901	TA7061 AP	IC
Q901	2SC792	Transistor
Q902	2SC496 Y or O or 2SC1567-R or S	Transistor
Q903	2SC828 R	Transistor
Q904	2SC828 R	Transistor
Q905	2SC828 R	Transistor
Q906	2SC828 R	Transistor
Q907	2SC828 R	Transistor
Q908	2SA564 Q	Transistor
Q909	2SC828 R	Transistor
Q910	2SA564 Q	Transistor
Q911	2SA564 Q	Transistor
Q912	2SC828 R	Transistor
D901	SIRBA 20	Diode
D902	1S1588 or 1S2473	Diode
D903	1S1588	Diode
D904	SV-4A	Diode
D905	MV-3	Diode
ZD901	HZ-7B	Zener diode
SCR901	SF1R3G41	Thyristor

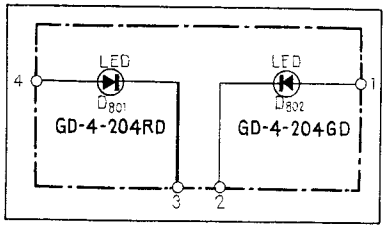
OTHERS

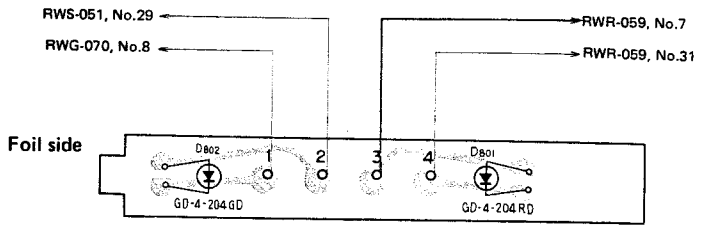
Symbol	Part No.	Description
	AKH-001	Tr socket
	RKP-019	Connector socket assembly
	RKP-020	Connector
	REC-247	Insulator sheet

List of Changed Parts for Factory Modification

Symbol	Part No.	Description

6.15 INDICATOR ASSEMBLY (RWX-142)





Parts List

Symbol	Part No.	Description
D801	GD-4-204RD	Light emitting diode
D802	GD-4-204GD	Light emitting diode
	REB-204	Diode holder

3-MOTOR 4-HEAD TAPE DECK

RT-707

KCU

CONTENTS

RT-707/KCU

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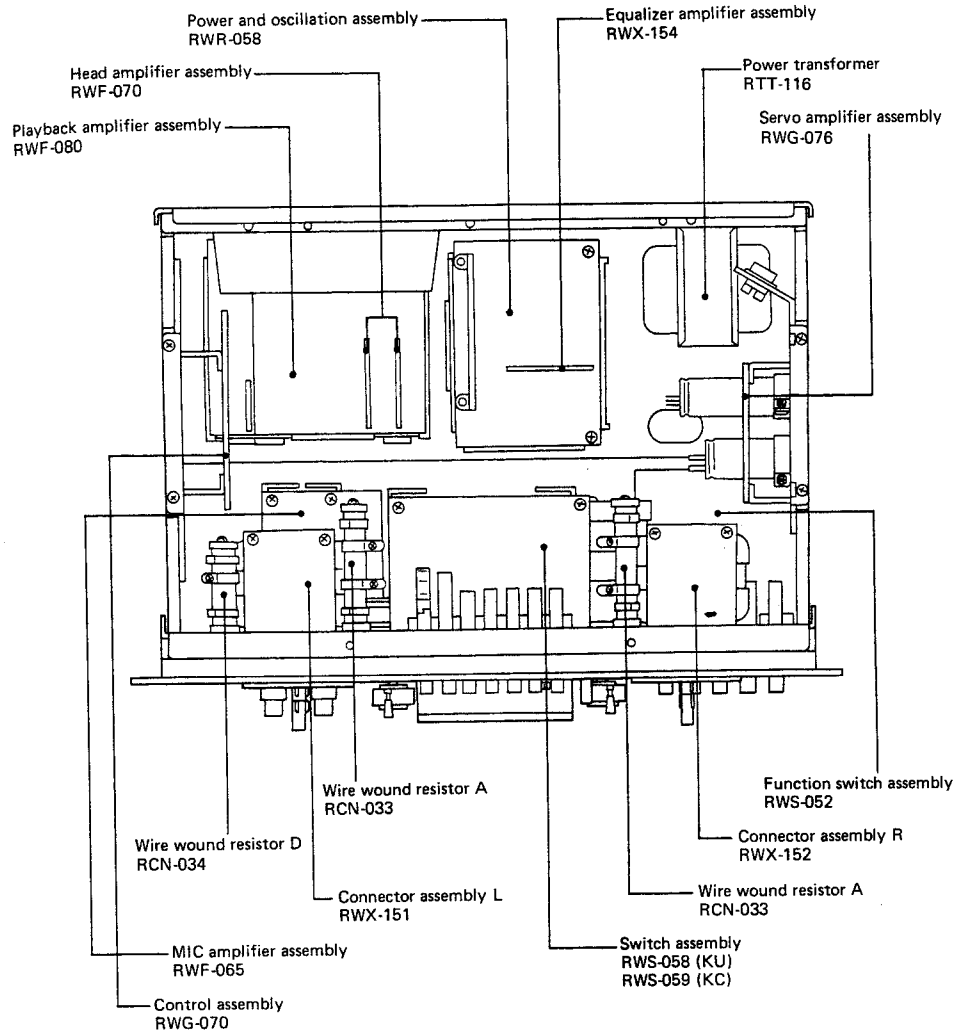
1. PARTS LOCATION

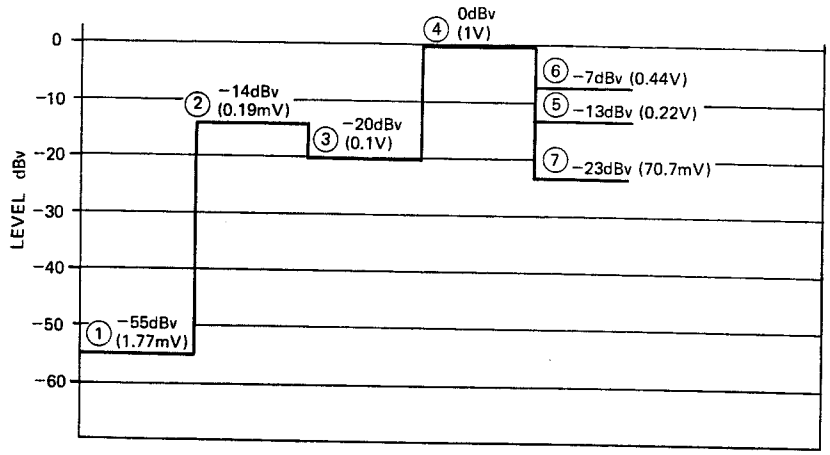
Top View With Bonnet Removed



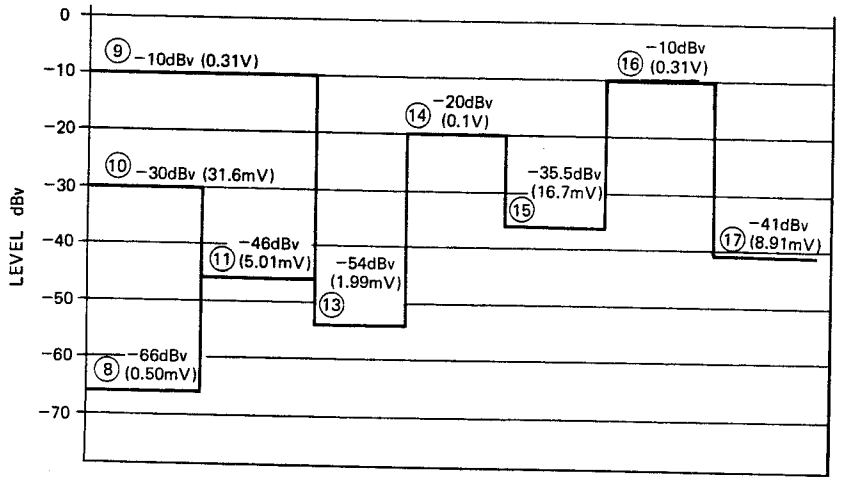
2. LEVEL DIAGRAM

NOTES:
0dBv=1V
Frequency: 1kHz
The level measurement points are indicated on the block diagram.

[PLAYBACK]

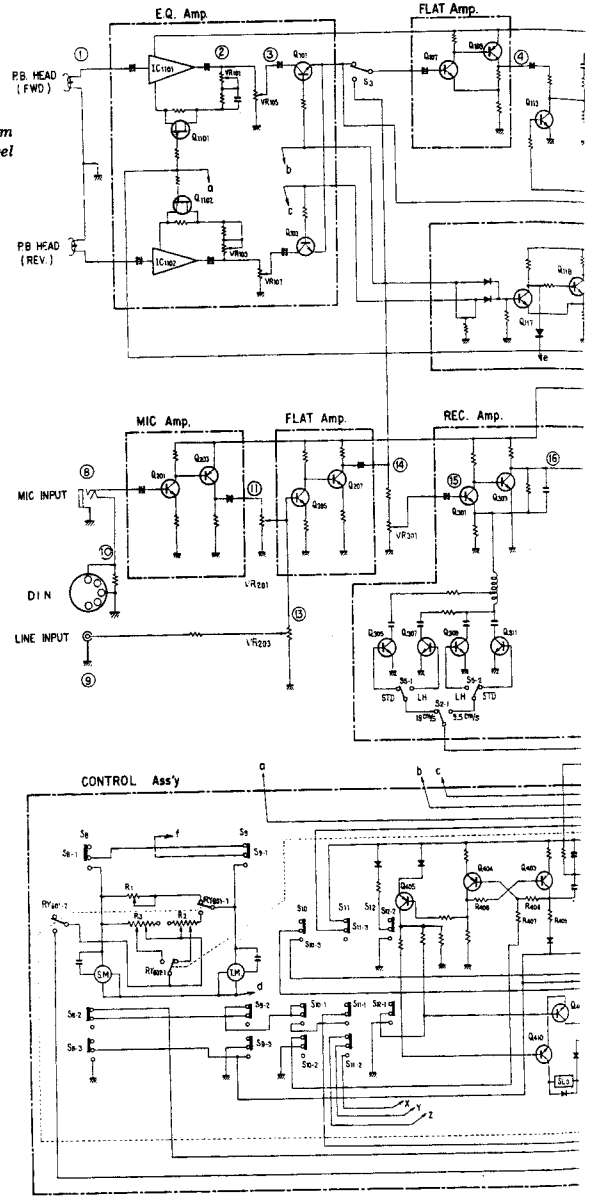


[RECORDING]



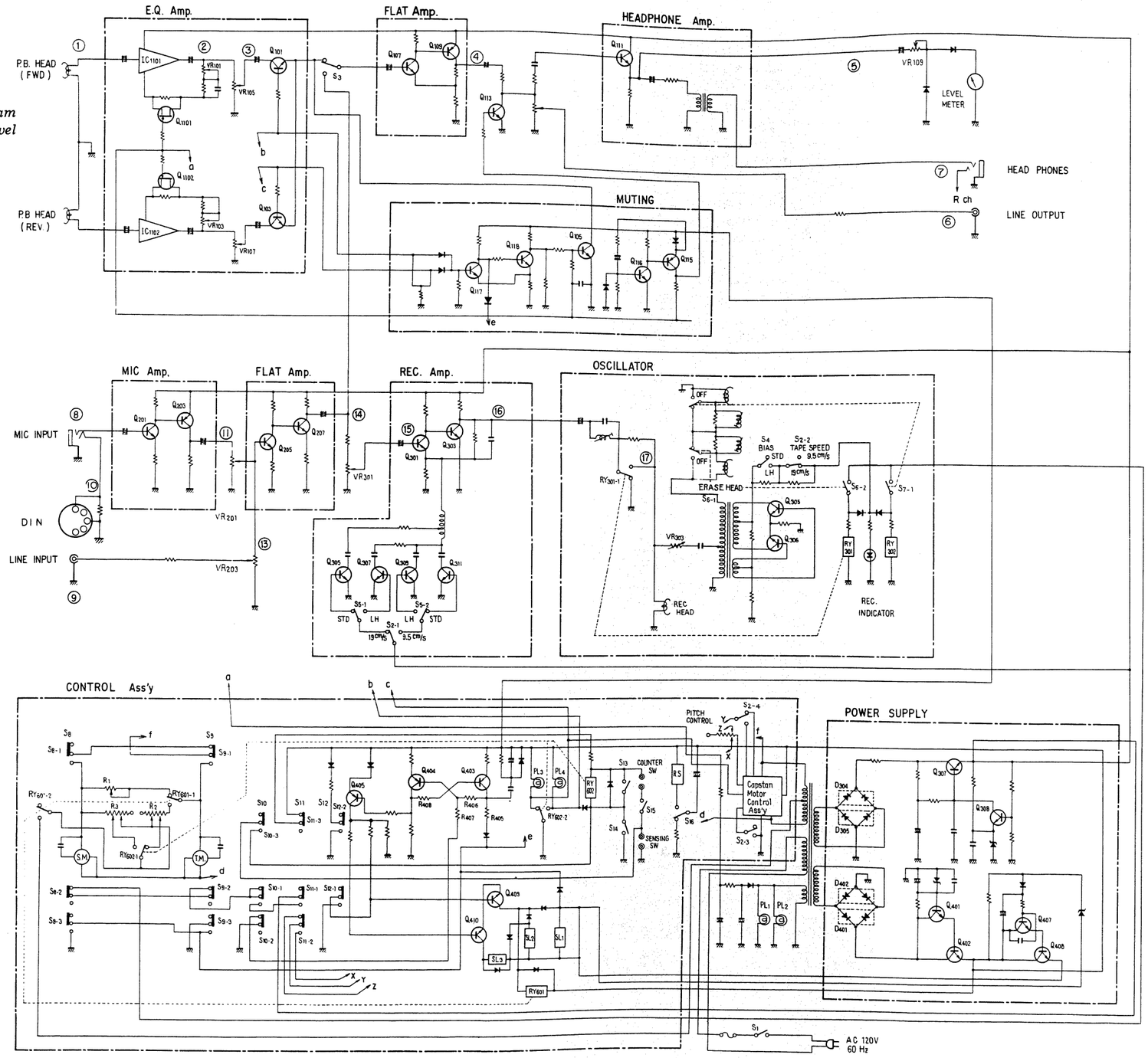
3. BLOCK DIAGRAM

NOTE:
The number which are circled in the block diagram indicated the points which are to be measured in the level diagram.



3. BLOCK DIAGRAM

NOTE:
The number which are circled in the block diagram indicated the points which are to be measured in the level diagram.



SWITCHES
- S_1 : POWER
- S_2 : SPEED
- S_3 : MONITOR
- S_4 : BIAS
- S_5 : E.Q
- S_6 : RECORD LEFT
- S_7 : RECORD RIGHT
- S_8 : REW
- S_9 : FWD
- S_{10} : PLAY
- S_{11} : REC
- S_{12} : PAUSE
- S_{13} : FWD
- S_{14} : REVERSE
- S_{15} : REPEAT
- S_{16} : SHUT OFF

RELAIES
- RY_{301} : REC LEFT
- RY_{302} : REC RIGHT
- RY_{601} : PLAY
- RY_{602} : DIRECTION

LAMPS
- PL_1 : LEVEL METER LEFT
- PL_2 : LEVEL METER RIGHT
- PL_3 : FWD INDICATOR
- PL_4 : REVERSE INDICATOR

4. CIRCUIT DESCRIPTIONS

4.1 PLAYBACK AMPLIFIER (Fig. 10)

1. The playback signal from the playback head enters IC_{1101} through C_{1103}.
2. The amplified output from IC_{1101} undergoes playback equalization in the equalizer formed by VR_{101}, R_{1109}, R_{1107}, C_{1113}.
3. The difference in equalization between 19cm and 9.5cm/s tape speeds is obtained by varying the voltage applied to the gate of FET Q_{1101} (0.4V for 19cm/s, −8.5V for 9.5cm/s) and utilizing the resultant change in the FET's internal impedance.
4. Downstream from IC_{1101}, the signal path is switched by Q_{101}.
   The signal is then amplified in the direct coupled NPN-PNP amplifier (Q_{107}, Q_{109}) and becomes available at the line output terminals.
5. A portion of the output signal undergoes impedance conversion in Q_{111} and matching transformer T_{101} and becomes available at the phones output jack.
6. For driving the level meters, output from Q_{111} is rectified in D_{109}, D_{111}.

4.2 BIAS OSCILLATOR (Fig. 9)

1. When +B (approx. 30V) is applied to Q_{305}, Q_{306}, a positive feedback loop is established through the oscillator transformer T_{301}, and oscillation begins.
2. From the secondary side of TR_{301}, the oscillation signal is supplied to the erase and recording heads.
3. The oscillation frequency is stabilized against temperature fluctuations by means of thermistor TH_{301} which regulates the base current of Q_{305}, Q_{306}.
4. In monaural recording, the REC (L) switch S_{6-2} or REC (R) switch S_{7-2}, respectively, is switched to a dummy coil which maintains uniform load on the oscillator, for stable operation.

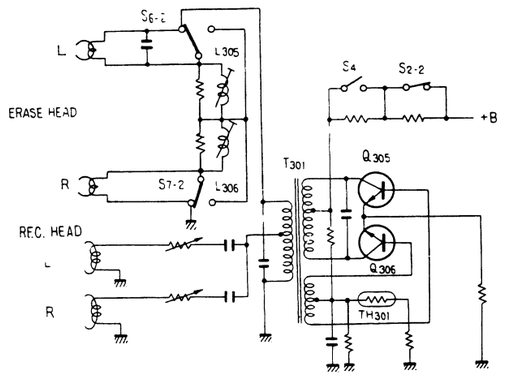


Fig. 9

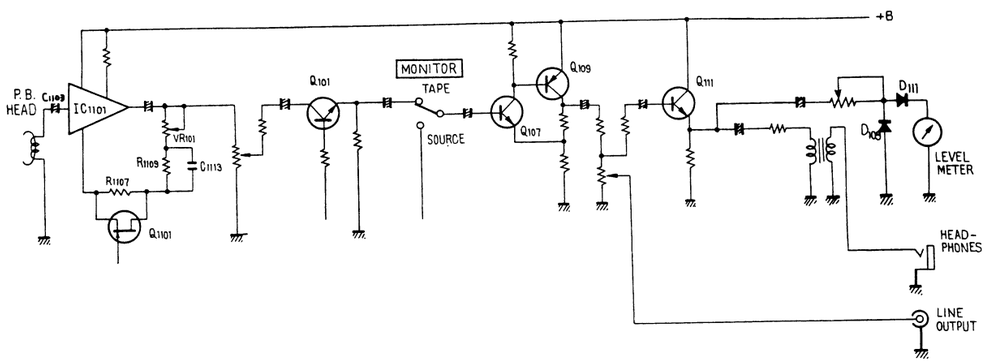


Fig. 10

4.3 CONTROL CIRCUIT

• Play Function (Fig. 11)

1. When the play button S_{10-2} is pushed, ground connection of R_{407} is interrupted and the base circuit of Q_{404} is opened. No current can flow through Q_{404}, and it enters OFF state.
2. +B voltage causes current to flow along the route $D_{405} \rightarrow Q_{405} \rightarrow R_{411} \rightarrow R_{410}$, whereby Q_{405} is turned ON.
3. Base current of Q_{409} can flow through R_{414} and transistor becomes ON. The collector current of Q_{409} activates brake solenoid SL_1, pinch solenoid SL_2 and play relay RY_{601}.
4. Base current of Q_{410} can flow through R_{412} and transistor becomes ON. Q_{410} collector current activates PAUSE solenoid.

Operation of brake solenoid SL_1 releases the brakes of the supply motor (SM) and take-up motor (TM). Operation of the pinch solenoid SL_2 causes the pinch roller to be pressed against the capstan.

Table 1

Transport Mode	Transistors in ON state	Transistors in OFF state
STOP	Q_{404}	Q_{403}, Q_{405}, Q_{409}, Q_{410}
PLAY	Q_{403}, Q_{405}, Q_{409}, Q_{410}	Q_{404}
FF/REW	Q_{404}	Q_{403}, Q_{405}, Q_{409}, Q_{410}
PAUSE	Q_{403}, Q_{405}, Q_{410}	Q_{404}, Q_{409}

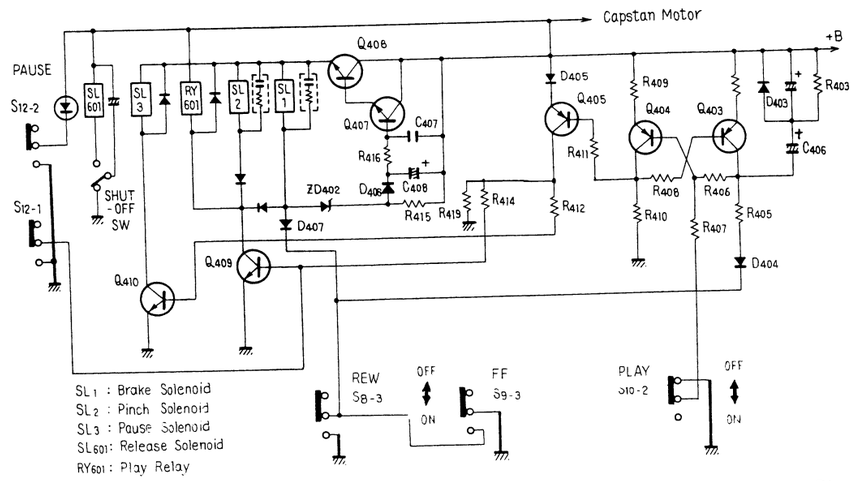
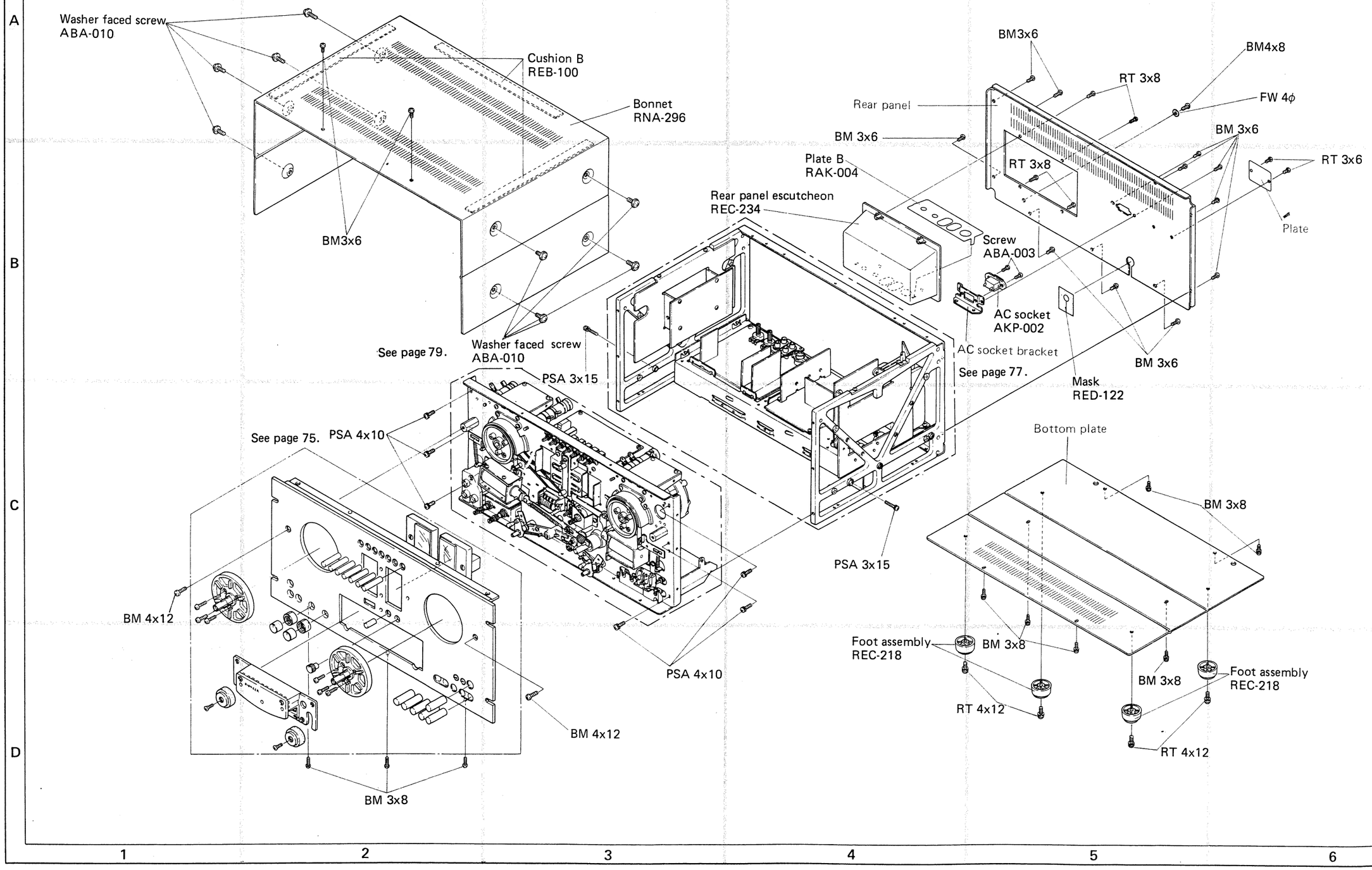


Fig. 11

5. EXPLODED VIEWS

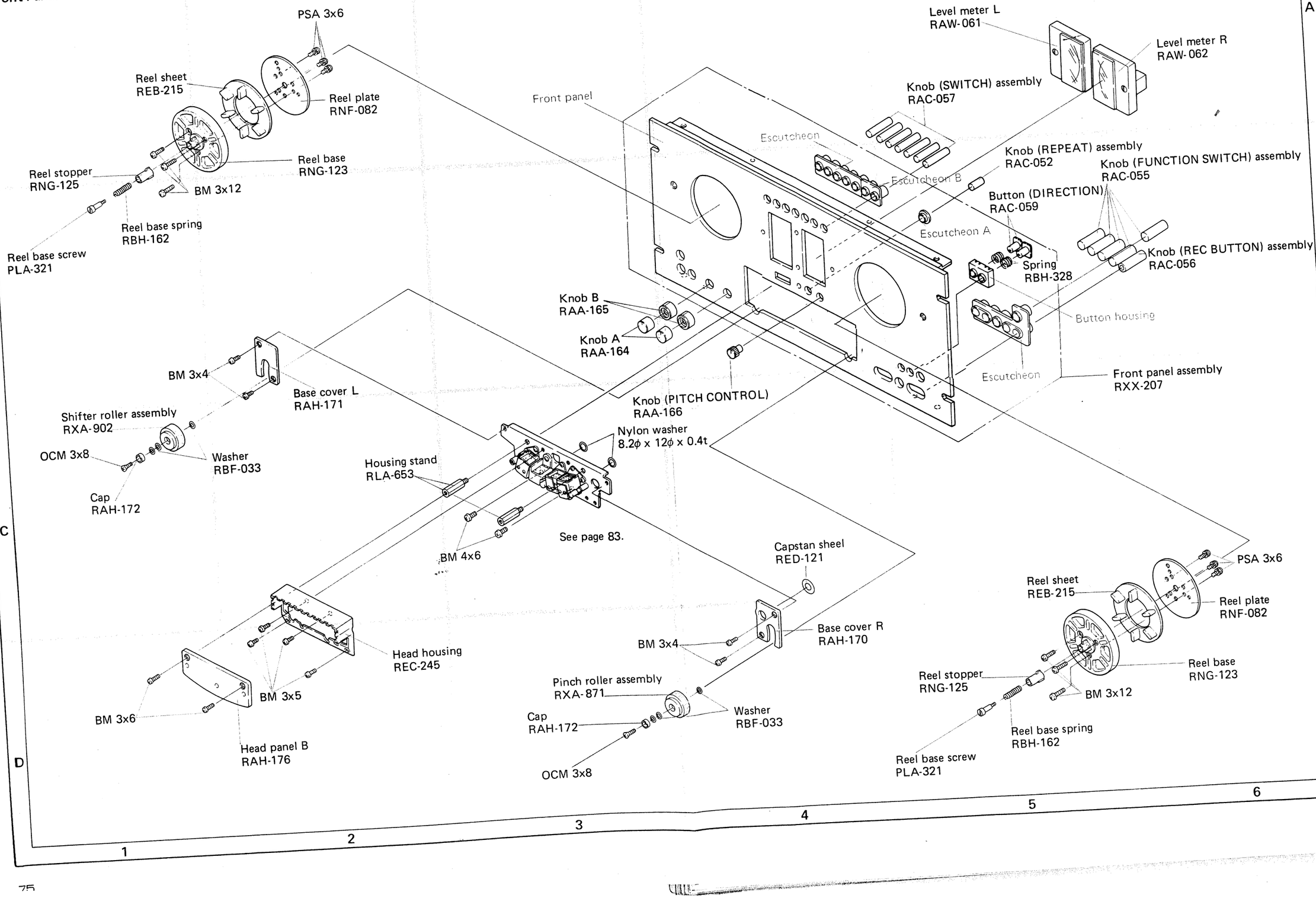
NOTE:
Parts indicated in green type cannot be supplied.

External View



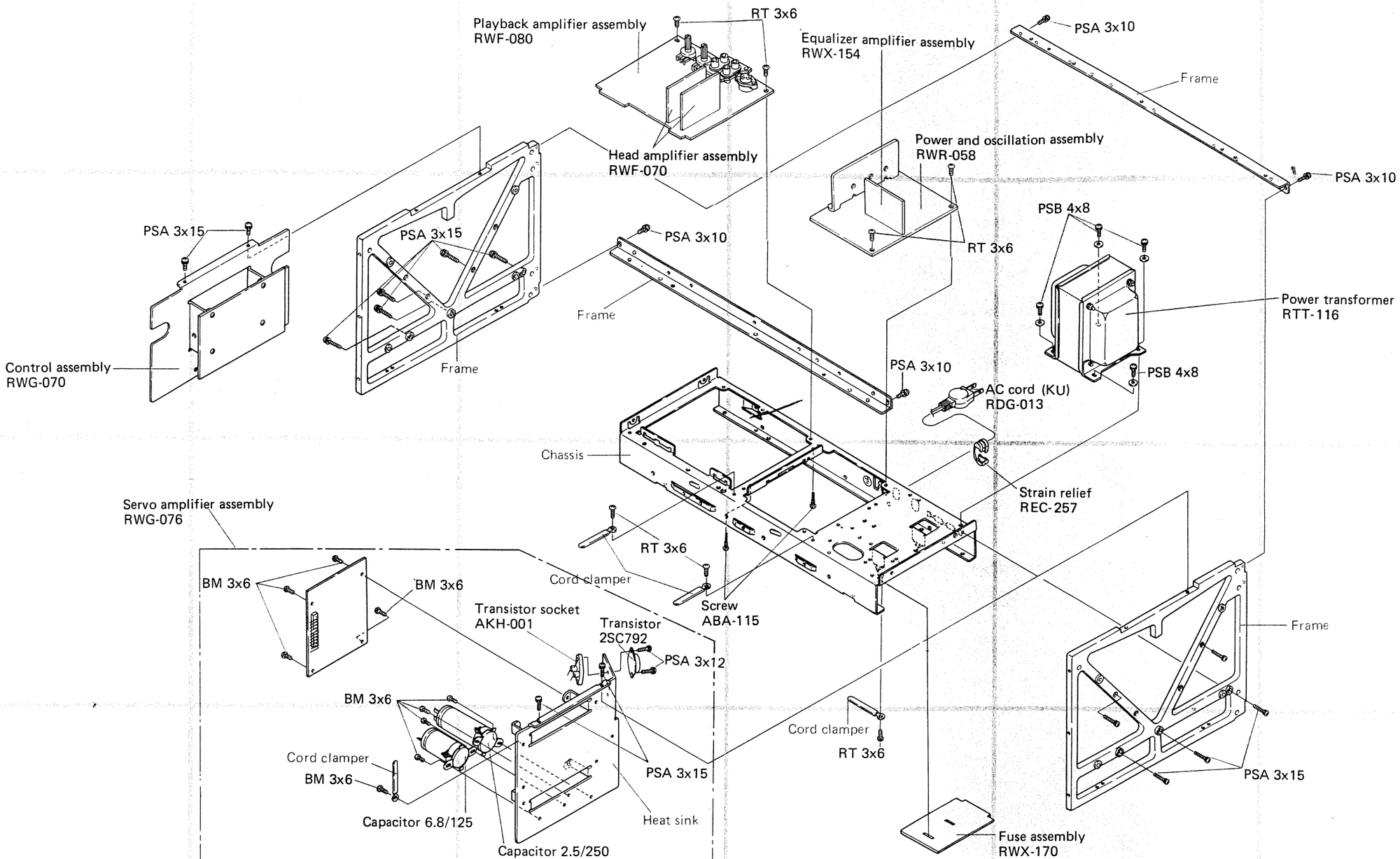
NOTE:
Parts indicated in green type cannot be supplied.

Front Panel View



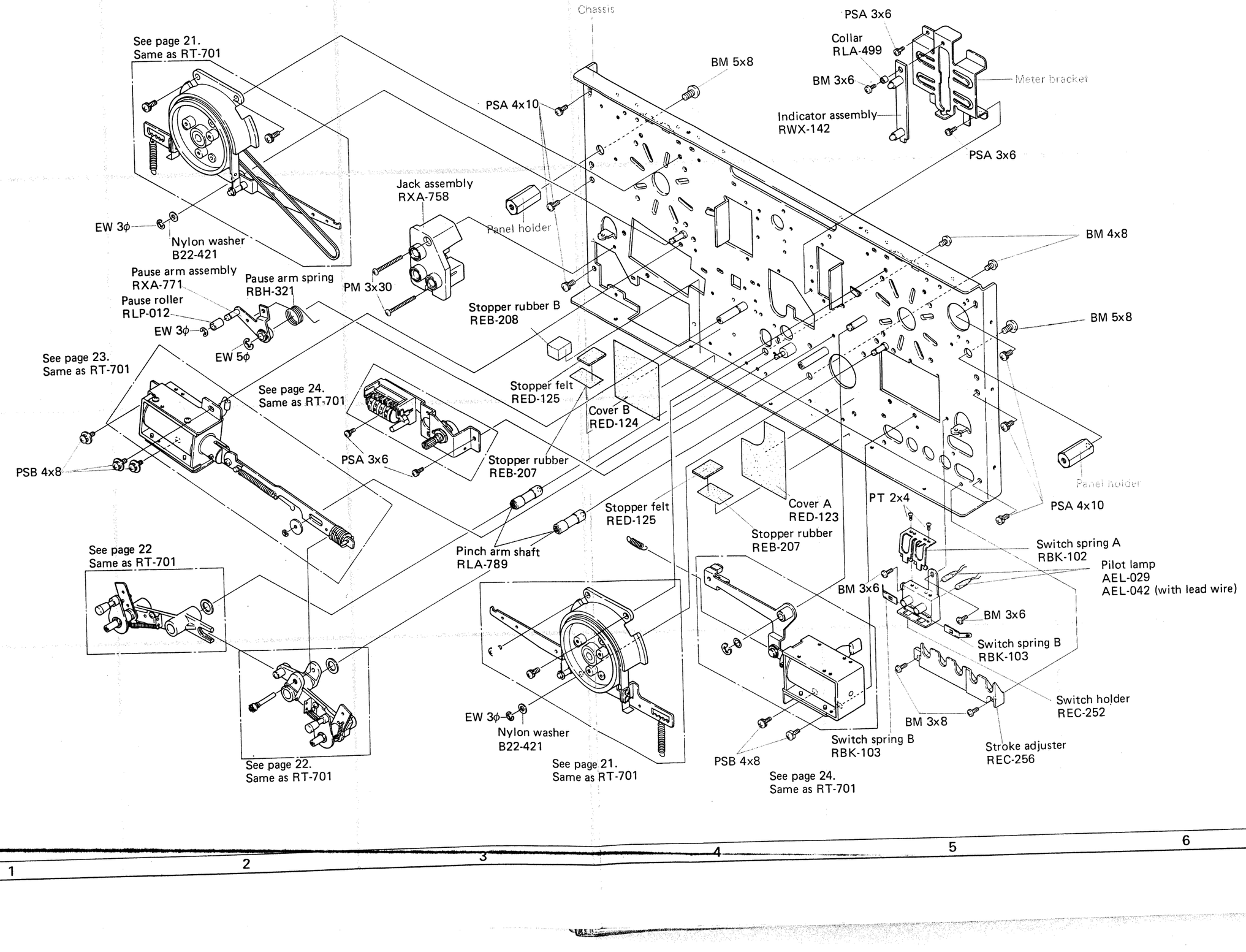
Structure View

NOTE:
Parts indicated in green type cannot be supplied.



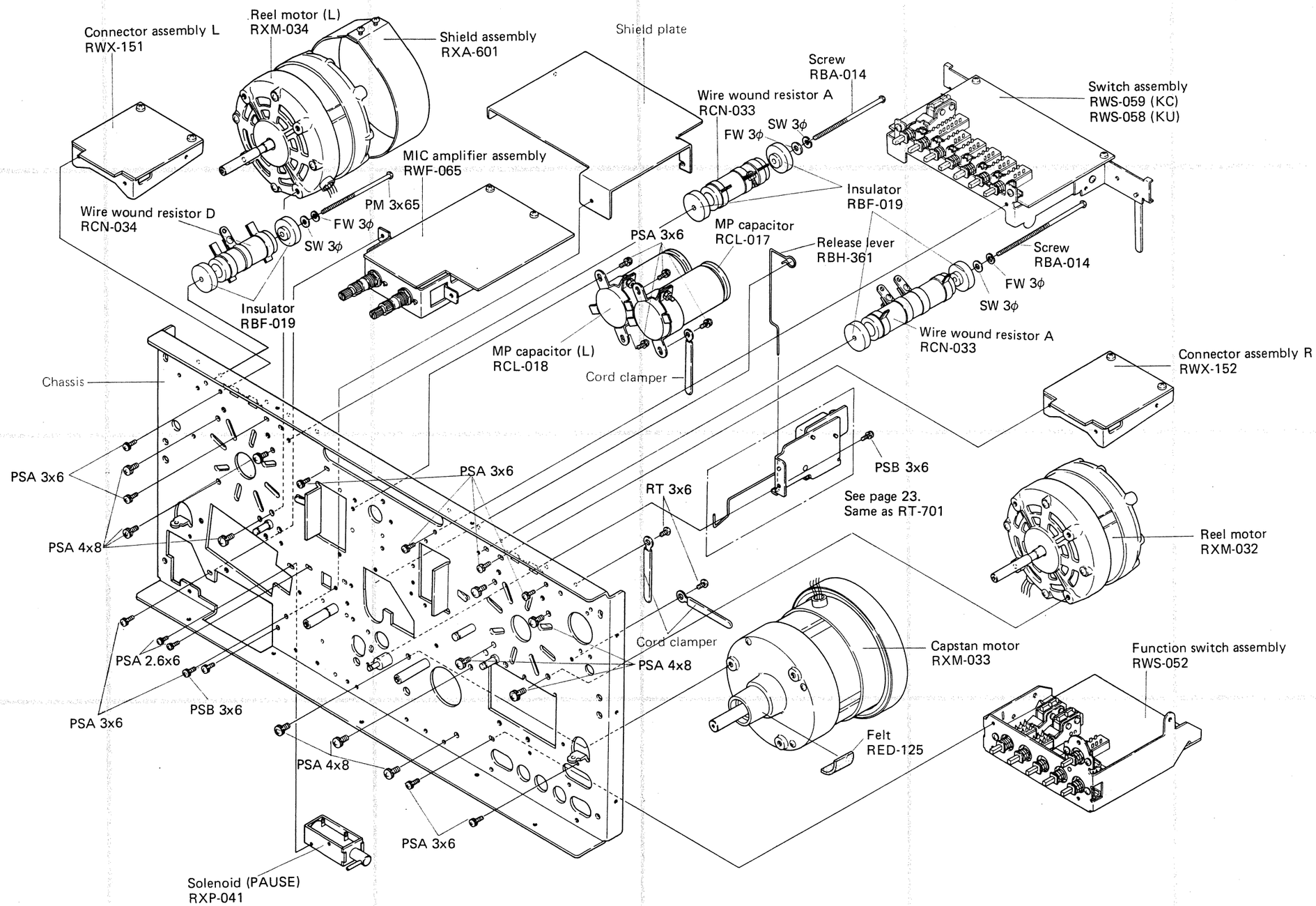
Front side view of mechanism chassis

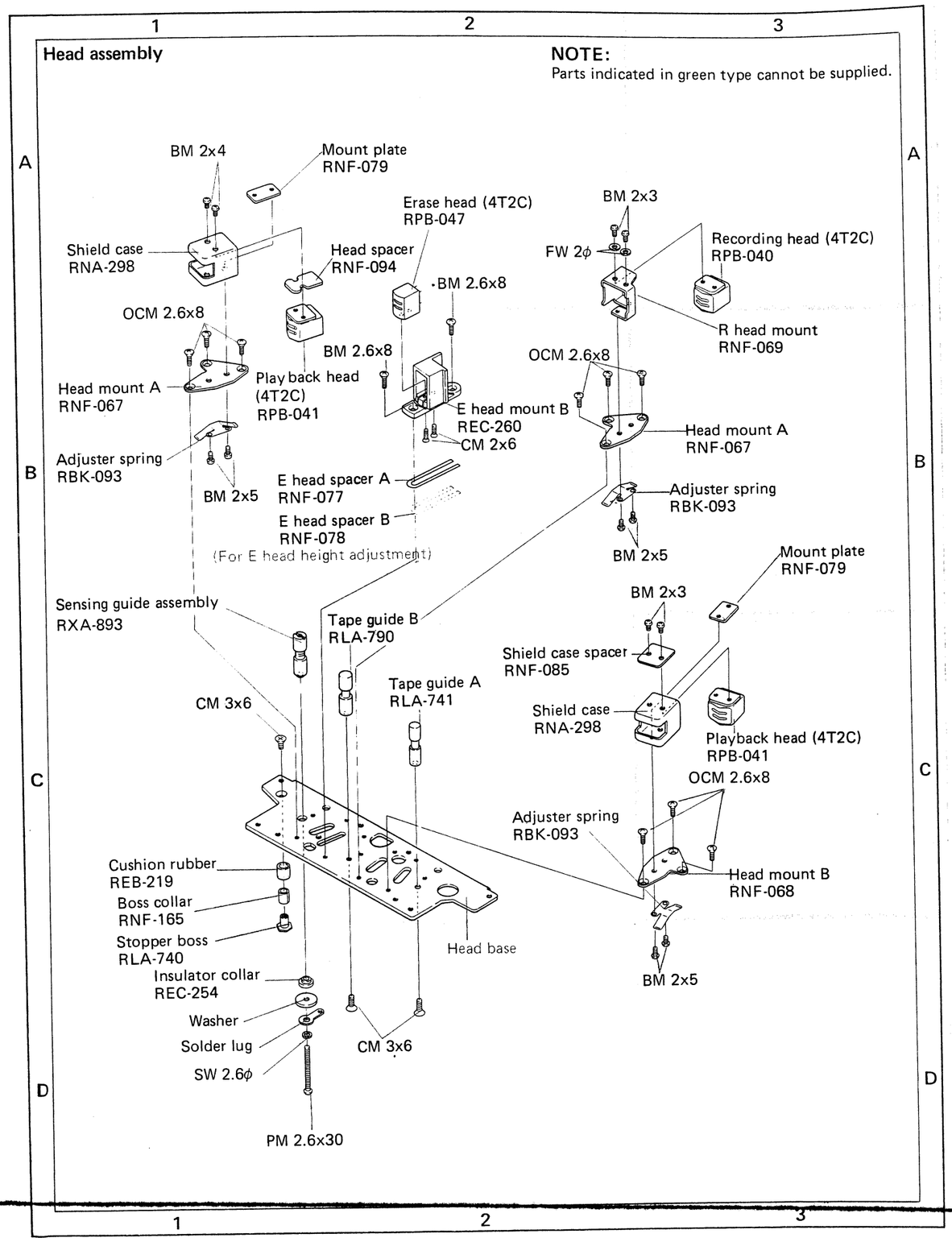
NOTE:
Parts indicated in green type cannot be supplied.



Rear side view of mechanism chassis

NOTE:
Parts indicated in green type cannot be supplied.





6. SCHEMATIC DIAGRAMS, P.C. BOARD PATTERNS AND PARTS LISTS

6.1 MISCELLANEOUS PARTS LIST

NOTE:
- *Capacitors: in μF unless otherwise noted p:pF.*
- *Resistors: in Ω, ¼W unless otherwise noted k: kΩ, M: MΩ*

CAPACITORS

Symbol	Part No.	Description
C1	RCL-017	MP capacitor
C2	RCL-018	MP capacitor (L)

RESISTORS

Symbol	Part No.	Description
R1	RCN-034	Wire wound resistor D 2k 20W
R2	RCN-033	Wire wound resistor A 350 25W
R3	RCN-033	Wire wound resistor A 350 25W
R4	RD¼PS 152J	Carbon film 1.5k
R5	RD¼PS 152J	Carbon film 1.5k
VR4	RCS-011	Variable resistor (PITCH CONTROL) 10k-B

SEMICONDUCTORS

Symbol	Part No.	Description
D1	W06B	Diode
D3	W06B	Diode

TRANSFORMERS

Symbol	Part No.	Description
	RTT-116	Power transformer

OTHERS

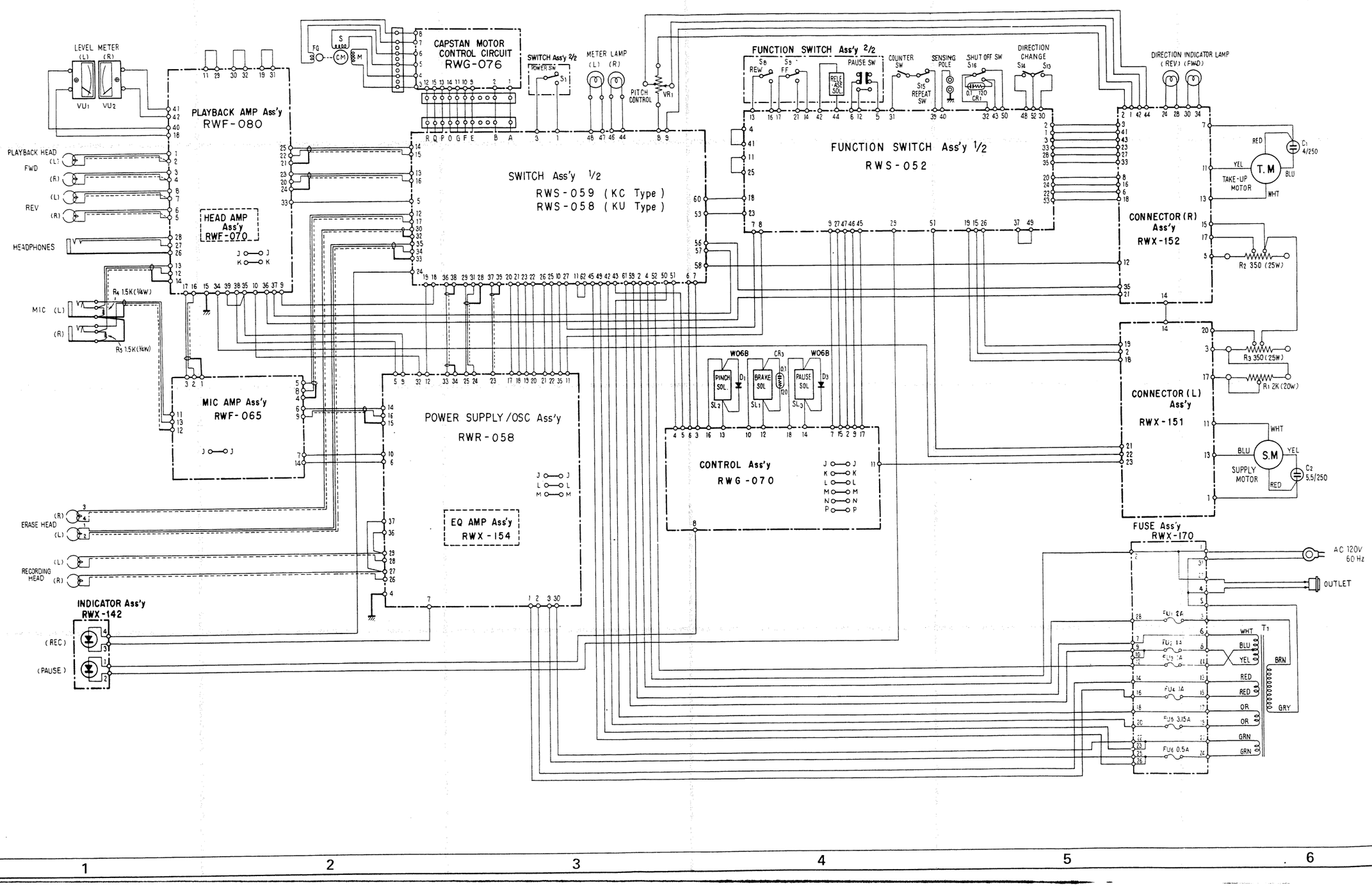
Symbol	Part No.	Description
VU1	RAW-061	Level meter L
VU2	RAW-062	Level meter R
CR1	RWX-030	Spark killer
CR2	RWX-030	Spark killer
S15	RSG-048	PAUSE switch
S16	RSF-007	Micro switch
	RXM-032	Reel motor
	RXM-035	Capstan motor
	RXM-034	Reel motor L

Symbol	Part No.	Description
	RXP-038	Solenoid (PINCH)
	RXP-040	Solenoid (BRAKE)
	RXP-041	Solenoid (PAUSE)
	RPB-047	Erase head (4T2C)
	RPB-040	Recording head (4T2C)
	RPB-041	Playback head (4T2C)
	RWR-058	Power and oscillation assembly
	RWF-080	Playback amplifier assembly
	RWX-170	Fuse assembly
	RWF-065	Mic amplifier assembly
	RWS-058	Switch assembly (KU)
	RWS-059	Switch assembly (KC)
	RWS-052	Function switch assembly
	RWG-070	Control assembly
	RWX-151	Connector assembly L
	RWX-152	Connector assembly R
	RDG-013	Power cord (KU)

The following assemblies are same as RT-701"▲"type.

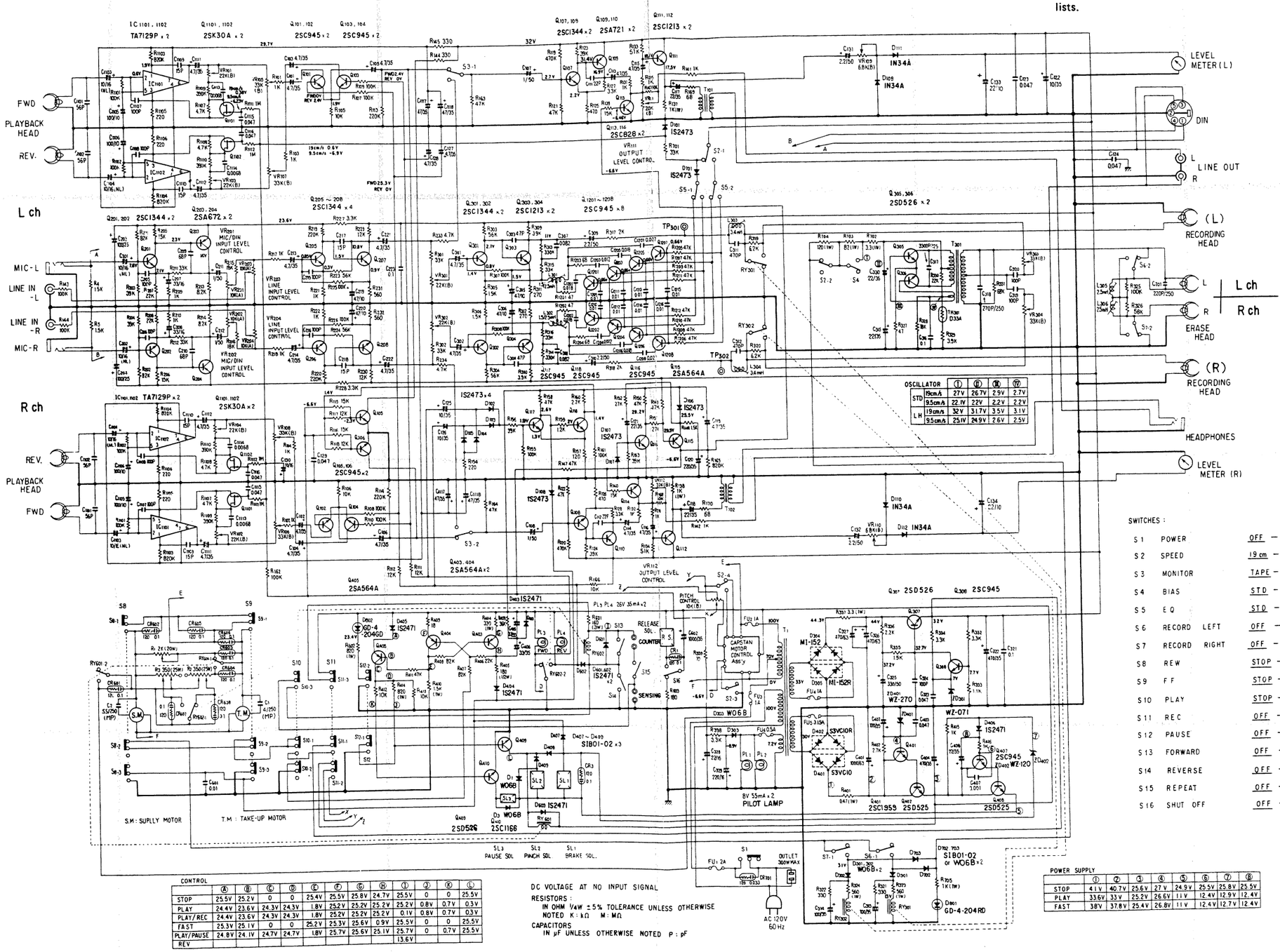
Assembly	Part No.	Remarks
Control assembly	RWG-070	See page 51
Indicator assembly	RWX-142	See page 64
Fuse assembly	RWX-170	See page 43
MIC amplifier assembly	RWF-065	See page 31

6.2 CONNECTION DIAGRAM



6.3 SCHEMATIC DIAGRAM

NOTE:
The indicated semiconductors are representative ones only. Other alternative semiconductors may be used and are listed in the parts lists.



OSCILLATOR	①	②	③	④
STD 19cm/s	27V	26.7V	2.9V	2.7V
9.5cm/s	22.1V	22V	2.2V	2.2V
LH 19cm/s	32V	31.7V	3.5V	3.1V
9.5cm/s	25.1V	24.9V	2.6V	2.5V

SWITCHES :

S1	POWER	OFF	ON
S2	SPEED	19 cm	9.5 cm
S3	MONITOR	TAPE	SOURCE
S4	BIAS	STD	LH
S5	EQ	STD	LH
S6	RECORD LEFT	OFF	ON
S7	RECORD RIGHT	OFF	ON
S8	REW	STOP	REW
S9	FF	STOP	FF
S10	PLAY	STOP	PLAY
S11	REC	OFF	ON
S12	PAUSE	OFF	ON
S13	FORWARD	OFF	ON
S14	REVERSE	OFF	ON
S15	REPEAT	OFF	ON
S16	SHUT OFF	OFF	ON

CONTROL

	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	Ⓖ	Ⓗ	①	②	③	④
STOP	25.5V	25.2V	0	0	25.4V	25.5V	25.8V	24.7V	25.5V	0	0	25.5V
PLAY	24.4V	23.6V	24.3V	24.3V	1.8V	25.2V	25.2V	25.2V	25.2V	0.8V	0.7V	0.3V
PLAY/REC	24.4V	23.6V	24.3V	24.3V	1.8V	25.2V	25.2V	25.2V	0.1V	0.8V	0.7V	0.3V
FAST	25.3V	25.1V	0	0	25.2V	25.3V	25.6V	0.9V	25.5V	0	0	25.5V
PLAY/PAUSE	24.8V	24.1V	24.7V	24.7V	1.8V	25.7V	25.6V	25.1V	25.7V	0	0.7V	25.5V
REV									13.6V			

POWER SUPPLY

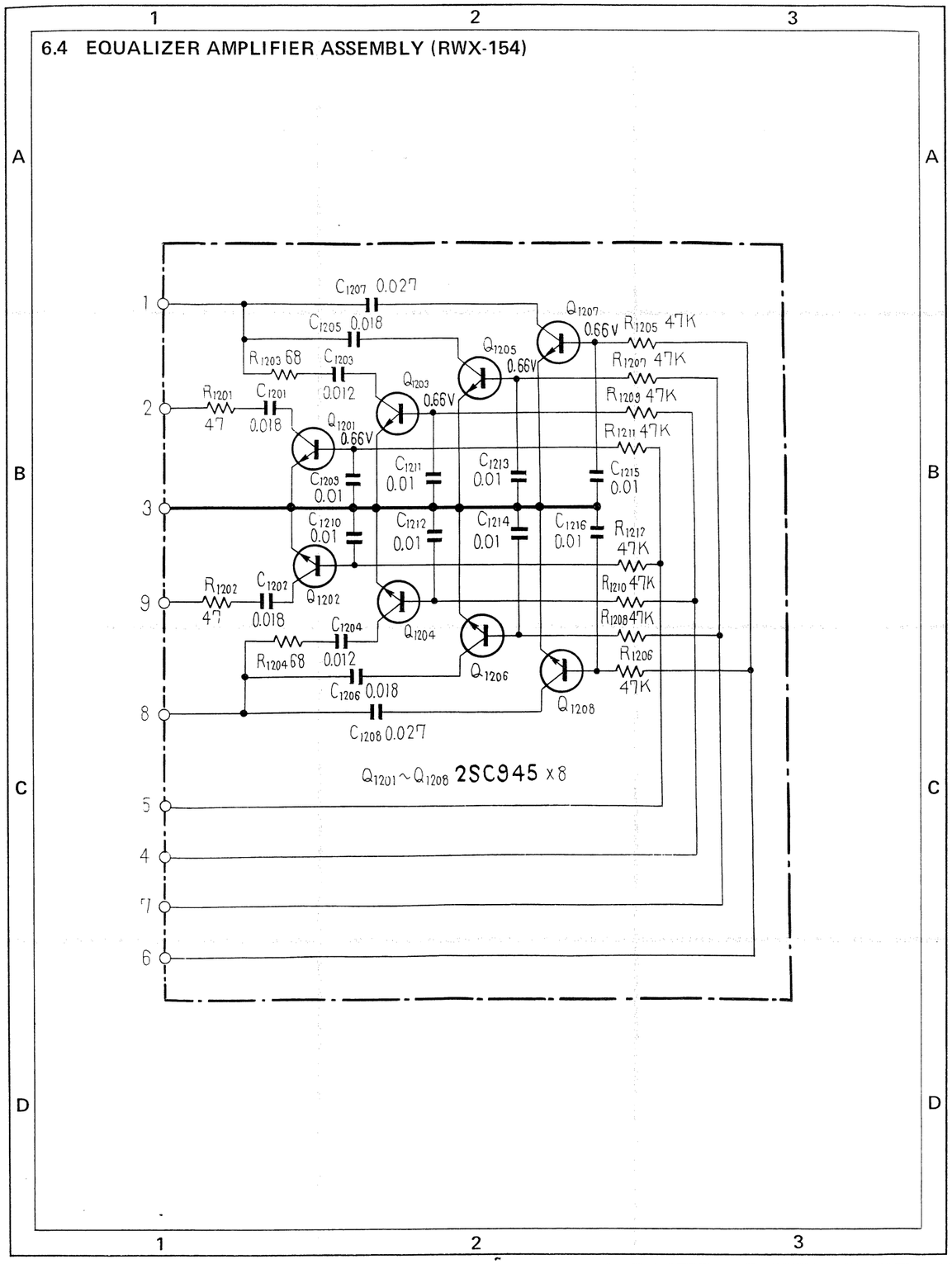
	①	②	③	④	⑤	⑥	⑦	⑧
STOP	41V	40.7V	25.6V	27V	24.9V	25.5V	25.8V	25.5V
PLAY	33.6V	33V	25.2V	26.6V	11V	12.4V	12.9V	12.4V
FAST	38V	37.8V	25.4V	26.8V	11V	12.4V	12.7V	12.4V

DC VOLTAGE AT NO INPUT SIGNAL

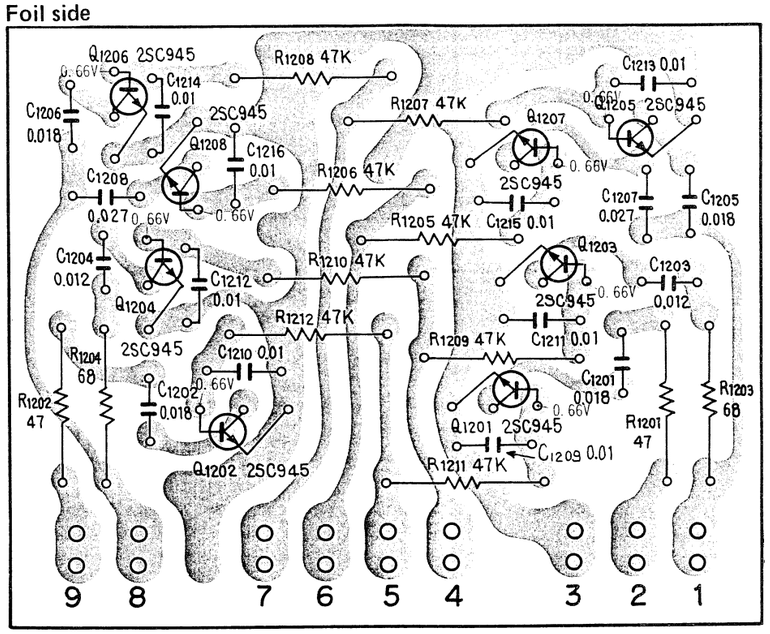
RESISTORS :
IN OHM 1/4W ±5% TOLERANCE UNLESS OTHERWISE NOTED K : kΩ M : MΩ

CAPACITORS
IN μF UNLESS OTHERWISE NOTED P : pF

6.4 EQUALIZER AMPLIFIER ASSEMBLY (RWX-154)



Foil side



Parts List

CAPACITORS

Symbol	Part No.	Description		
C1201	CQMA 183K 50	Mylar	0.018	50V
C1202	CQMA 183K 50	Mylar	0.018	50V
C1203	CQMA 123K 50	Mylar	0.012	50V
C1204	CQMA 123K 50	Mylar	0.012	50V
C1205	CQMA 183K 50	Mylar	0.018	50V
C1206	CQMA 183K 50	Mylar	0.018	50V
C1207	CQMA 273K 50	Mylar	0.027	50V
C1208	CQMA 273K 50	Mylar	0.027	50V
C1209	CKDYF 103Z 50	Ceramic	0.01	50V
C1210	CKDYF 103Z 50	Ceramic	0.01	50V
C1211	CKDYF 103Z 50	Ceramic	0.01	50V
C1212	CKDYF 103Z 50	Ceramic	0.01	50V
C1213	CKDYF 103Z 50	Ceramic	0.01	50V
C1214	CKDYF 103Z 50	Ceramic	0.01	50V
C1215	CKDYF 103Z 50	Ceramic	0.01	50V
C1216	CKDYF 103Z 50	Ceramic	0.01	50V

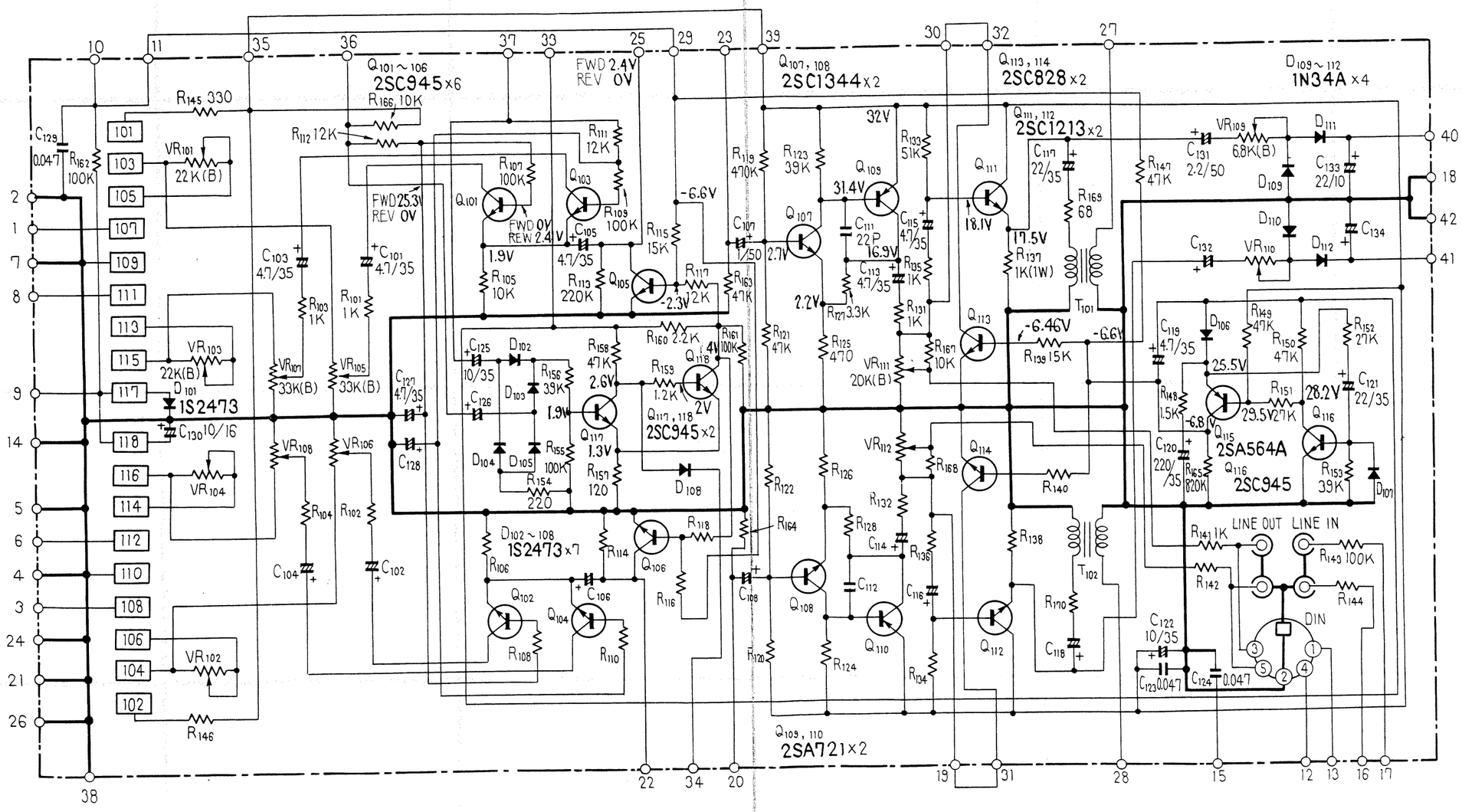
RESISTORS

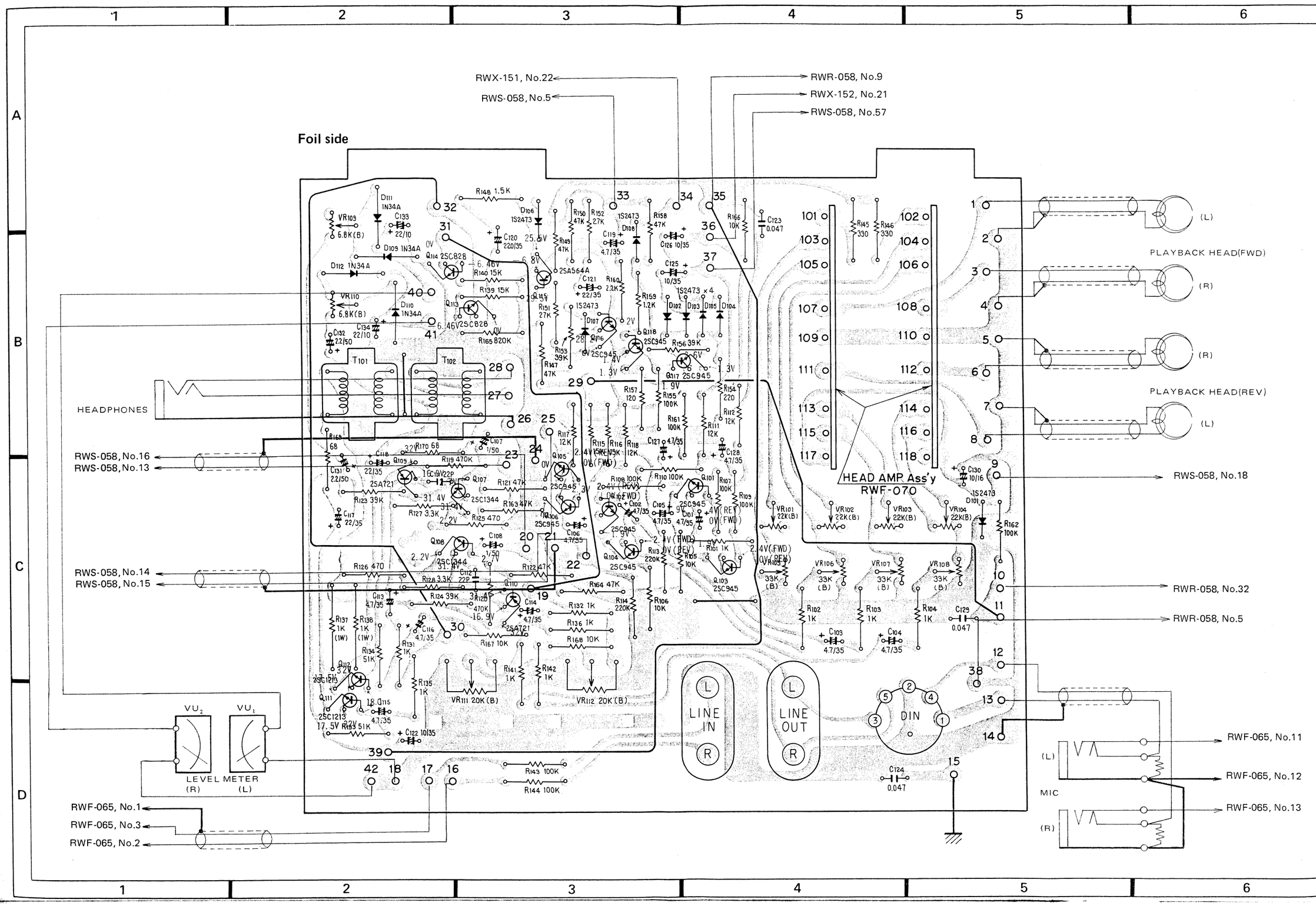
Symbol	Part No.	Description	
R1201	RD¼PS 470J	Carbon film	47
R1202	RD¼PS 470J	Carbon film	47
R1203	RD¼PS 680J	Carbon film	68
R1204	RD¼PS 680J	Carbon film	68
R1205	RD¼PS 473J	Carbon film	47k
R1206	RD¼PS 473J	Carbon film	47k
R1207	RD¼PS 473J	Carbon film	47k
R1208	RD¼PS 473J	Carbon film	47k
R1209	RD¼PS 473J	Carbon film	47k
R1210	RD¼PS 473J	Carbon film	47k
R1211	RD¼PS 473J	Carbon film	47k
R1212	RD¼PS 473J	Carbon film	47k

SEMICONDUCTORS

Symbol	Part No.	Description
Q1201	2SC945P orQ	Transistor
Q1202	2SC945P or Q	Transistor
Q1203	2SC945P orQ	Transistor
Q1204	2SC945P or Q	Transistor
Q1205	2SC945P or Q	Transistor
Q1206	2SC945P or Q	Transistor
Q1207	2SC945P or Q	Transistor
Q1208	2SC945P or Q	Transistor

6.5 PLAYBACK AMPLIFIER ASSEMBLY (RWF-080)




Foil side
RWX-151, No.22
RWS-058, No.5
RWR-058, No.9
RWX-152, No.21
RWS-058, No.57
HEADPHONES
RWS-058, No.16
RWS-058, No.13
RWS-058, No.14
RWS-058, No.15
RWF-065, No.1
RWF-065, No.3
RWF-065, No.2
LEVEL METER
(R) (L)
LINE IN
LINE OUT
DIN
HEAD AMP Ass'y
RWF-070
PLAYBACK HEAD(FWD)
PLAYBACK HEAD(REV)
(L)
(R)
RWS-058, No.18
RWR-058, No.32
RWR-058, No.5
RWF-065, No.11
RWF-065, No.12
RWF-065, No.13
MIC
T101
T102
VR109 6.8K(B)
VR110 6.8K(B)
D111 1N34A
D109 1N34A
D112 1N34A
D110 1N34A
C133 22/10
C134 22/10
C132 2.2/50
C120 220/35
C121 22/35
C119 4.7/35
C126 10/35
C125 10/35
R148 1.5K
R150 47K
R152 27K
R158 47K
R166 10K
C123 0.047
R145 330
R146 330
R140 15K
R139 15K
R165 820K
R149 47K
R151 27K
R153 39K
R147 47K
R160 2.2K
R159 1.2K
R156 39K
R157 120
R155 100K
R154 220
R161 100K
R111 12K
R112 12K
C128 4.7/35
C127 4.7/35
R115 15K
R116 15K
R118 12K
R117 12K
R170 68
R119 470K
R121 47K
R123 39K
R127 3.3K
R125 470
R163 47K
R110 100K
R108 100K
R107 100K
R109 100K
C130 10/16
C131 22/50
C117 22/35
C118 22/35
C107 1/50
C108 1/50
C106 4.7/35
C102 4.7/35
C105 4.7/35
C101 4.7/35
R126 470
R122 47K
R164 47K
R124 39K
R120 470K
C112 22P
C113 4.7/35
C114 4.7/35
C116 4.7/35
C115 4.7/35
C122 10/35
R114 220K
R106 10K
R113 220K
R105 10K
R101 1K
R132 1K
R136 1K
R168 10K
R167 10K
R137 1K (1W)
R138 1K (1W)
R134 51K
R133 1K
R135 1K
R131 51K
R141 1K
R142 1K
R143 100K
R144 100K
VR111 20K(B)
VR112 20K(B)
VR101 22K(B)
VR102 22K(B)
VR103 22K(B)
VR104 22K(B)
VR105 33K (B)
VR106 33K (B)
VR107 33K (B)
VR108 33K (B)
R102 1K
R103 1K
R104 1K
C103 4.7/35
C104 4.7/35
C129 0.047
C124 0.047
R162 100K
D101 1S2473
D102 D103 D105 D104 1S2473 x 4
D106 1S2473
D107 1S2473
D108 1S2473
Q114 2SC828
Q113 2SC828
Q115 2SA564A
Q118 2SC945
Q117 2SC945
Q105 2SC945
Q106 2SC945
Q107 2SC1344
Q108 2SC1344
Q109 2SA721
Q110 2SA721
Q111 2SC1213
Q112 2SC1213
Q101 2SC945
Q102 2SC945
Q104 2SC945
Q103 2SC945
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42
101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118

Parts List of Playback Amplifier Assembly (RWF-080)

TRANSFORMERS

Symbol	Part No.	Description
T101	RTV-009	Matching transformer
T102	RTV-009	Matching transformer

CAPACITORS

Symbol	Part No.	Description		
C101	CEA 4R7P 35	Electrolytic	4.7	35V
C102	CEA 4R7P 35	Electrolytic	4.7	35V
C103	CEA 4R7P 35	Electrolytic	4.7	35V
C104	CEA 4R7P 35	Electrolytic	4.7	35V
C105	CEA 4R7P 35	Electrolytic	4.7	35V
C106	CEA 4R7P 35	Electrolytic	4.7	35V
C107	CEA 010P 50	Electrolytic	1	50V
C108	CEA 010P 50	Electrolytic	1	50V
C111	CCDSL 220K 50	Ceramic	22p	50V
C112	CCDSL 220K 50	Ceramic	22p	50V
C113	CEA 4R7P 35	Electrolytic	4.7	35V
C114	CEA 4R7P 35	Electrolytic	4.7	35V
C115	CEA 4R7P 35	Electrolytic	4.7	35V
C116	CEA 4R7P 35	Electrolytic	4.7	35V
C117	CEA 220P 35	Electrolytic	22	35V
C118	CEA 220P 35	Electrolytic	22	35V
C119	CEA 4R7P 35	Electrolytic	4.7	35V
C120	CEA 221P 35	Electrolytic	220	35V
C121	CEA 220P 35	Electrolytic	22	35V
C122	CEA 100P 35	Electrolytic	10	35V
C123	CKDYF 473Z 50	Ceramic	0.047	50V
C124	CKDYF 473Z 50	Ceramic	0.047	50V
C125	CEA 100P 35	Electrolytic	10	35V
C126	CEA 100P 35	Electrolytic	10	35V
C127	CEA 4R7P 35	Electrolytic	4.7	35V
C128	CEA 4R7P 35	Electrolytic	4.7	35V
C129	CKDYF 473Z 50	Ceramic	0.047	50V
C130	CEA 100P 16	Electrolytic	10	16V
C131	CEA 2R2P 50	Electrolytic	2.2	50V
C132	CEA 2R2P 50	Electrolytic	2.2	50V
C133	CEA 220P 10	Electrolytic	22	10V
C134	CEA 220P 10	Electrolytic	22	10V

RESISTORS

Symbol	Part No.	Description	
VR101	C92-857	Semi-fixed	22k-B
VR102	C92-857	Semi-fixed	22k-B
VR103	C92-857	Semi-fixed	22k-B
VR104	C92-857	Semi-fixed	22k-B
VR105	C81-426	Semi-fixed	33k-B
VR106	C81-426	Semi-fixed	33k-B
VR107	C81-426	Semi-fixed	33k-B
VR108	C81-426	Semi-fixed	33k-B
VR109	RCP-001	Semi-fixed	6.8k-B
VR110	RCP-001	Semi-fixed	6.8k-B
VR111	RCS-013	Variable resistor	20k-B
VR112	RCS-013	Variable resistor	20k-B
R101	RD¼PS 102J	Carbon film	1k
R102	RD¼PS 102J	Carbon film	1k
R103	RD¼PS 102J	Carbon film	1k
R104	RD¼PS 102J	Carbon film	1k
R105	RD¼PS 103J	Carbon film	10k
R106	RD¼PS 103J	Carbon film	10k
R107	RD¼PS 104J	Carbon film	100k
R108	RD¼PS 104J	Carbon film	100k
R109	RD¼PS 104J	Carbon film	100k
R110	RD¼PS 104J	Carbon film	100k
R111	RD¼PS 123J	Carbon film	12k
R112	RD¼PS 123J	Carbon film	12k
R113	RD¼PS 224J	Carbon film	220k
R114	RD¼PS 224J	Carbon film	220k
R115	RD¼PS 153J	Carbon film	15k
R116	RD¼PS 153J	Carbon film	15k
R117	RD¼PS 123J	Carbon film	12k
R118	RD¼PS 123J	Carbon film	12k
R119	RD¼PS 474J	Carbon film	470k
R120	RD¼PS 474J	Carbon film	470k
R121	RD¼PS 473J	Carbon film	47k
R122	RD¼PS 473J	Carbon film	47k
R123	RD¼PS 393J	Carbon film	39k
R124	RD¼PS 393J	Carbon film	39k
R125	RD¼PS 471J	Carbon film	470
R126	RD¼PS 471J	Carbon film	470
R127	RD¼PS 332J	Carbon film	3.3k
R128	RD¼PS 332J	Carbon film	3.3k
R131	RD¼PS 102J	Carbon film	1k
R132	RD¼PS 102J	Carbon film	1k
R133	RD¼PS 513J	Carbon film	51k
R134	RD¼PS 513J	Carbon film	51k
R135	RD¼PS 102J	Carbon film	1k
R136	RD¼PS 102J	Carbon film	1k
R137	RS1P 102J	Metal oxide	1k 1W
R138	RS1P 102J	Metal oxide	1k 1W
R139	RD¼PS 153J	Carbon film	15k
R140	RD¼PS 153J	Carbon film	15k
R141	RD¼PS 102J	Carbon film	1k
R142	RD¼PS 102J	Carbon film	1k
R143	RD¼PS 104J	Carbon film	100k
R144	RD¼PS 104J	Carbon film	100k
R145	RD¼PSF 331J	Carbon film	330
R146	RD¼PSF 331J	Carbon film	330
R147	RD¼PS 473J	Carbon film	47k
R148	RD¼PS 152J	Carbon film	1.5k
R149	RD¼PS 473J	Carbon film	47k
R150	RD¼PS 473J	Carbon film	47k
R151	RD¼PS 273J	Carbon film	27k
R152	RD¼PS 273J	Carbon film	27k
R153	RD¼PS 393J	Carbon film	39k
R154	RD¼PS 221J	Carbon film	220
R155	RD¼PS 104J	Carbon film	100k
R156	RD¼PS 393J	Carbon film	39k
R157	RD¼PS 121J	Carbon film	120
R158	RD¼PS 473J	Carbon film	47k
R159	RD¼PS 122J	Carbon film	1.2k
R160	RD¼PS 222J	Carbon film	2.2k
R161	RD¼PS 104J	Carbon film	100k
R162	RD¼PS 104J	Carbon film	100k
R163	RD¼PS 473J	Carbon film	47k
R164	RD¼PS 473J	Carbon film	47k
R165	RD¼PS 824J	Carbon film	820k
R166	RD¼PS 103J	Carbon film	10k
R167	RD¼PS 103J	Carbon film	10k
R168	RD¼PS 103J	Carbon film	10k
R169	RD¼PS 680J	Carbon film	68
R170	RD¼PS 680J	Carbon film	68

SEMICONDUCTORS

Symbol	Part No.	Description
Q101	2SC945-P or Q	Transistor
Q102	2SC945-P or Q	Transistor
Q103	2SC945-P or Q	Transistor
Q104	2SC945-P or Q	Transistor
Q105	2SC945-P or Q	Transistor
Q106	2SC945-P or Q	Transistor
Q107	2SC1344-D or E	Transistor
Q108	2SC1344-D or E	Transistor
Q109	2SA721-T or U	Transistor
Q110	2SA721-T or U	Transistor
Q111	2SC1213-B or C	Transistor
Q112	2SC1213-B or C	Transistor
Q113	2SC828-R or S	Transistor
Q114	2SC828-R or S	Transistor
Q115	2SA564A-R or S	Transistor
Q116	2SC945-P or Q	Transistor
Q117	2SC945-P or Q	Transistor
Q118	2SC945-P or Q	Transistor
D101	1S2473	Diode
D102	1S2473	Diode
D103	1S2473	Diode
D104	1S2473	Diode
D105	1S2473	Diode
D106	1S2473	Diode
D107	1S2473	Diode
D108	1S2473	Diode
D109	1N34A	Diode
D110	1N34A	Diode
D111	1N34A	Diode
D112	1N34A	Diode

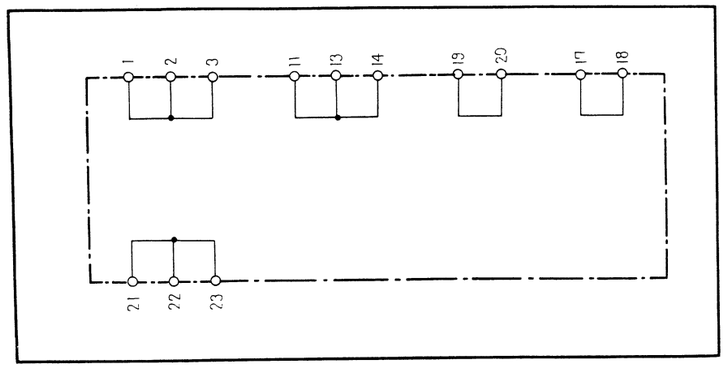
OTHERS

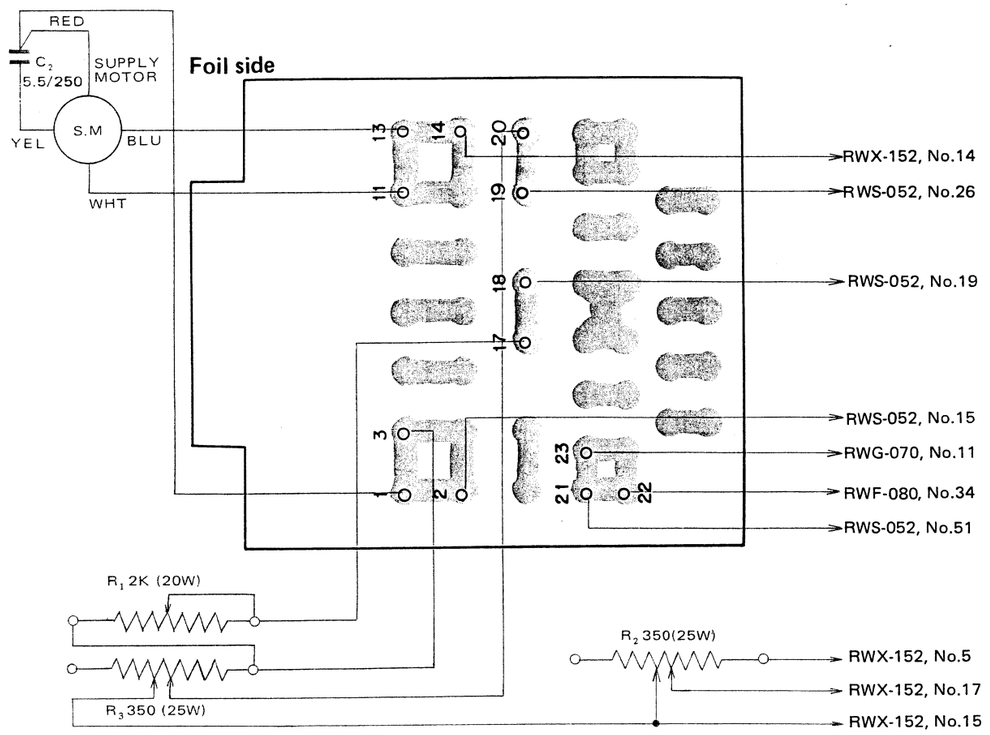
Symbol	Part No.	Description
	RWF-070	Head amplifier assembly
	RKP-030	DIN connector socket (5P)
	RKB-011	Terminal (INPUT, OUTPUT)

List of Changed Parts for Factory Modification

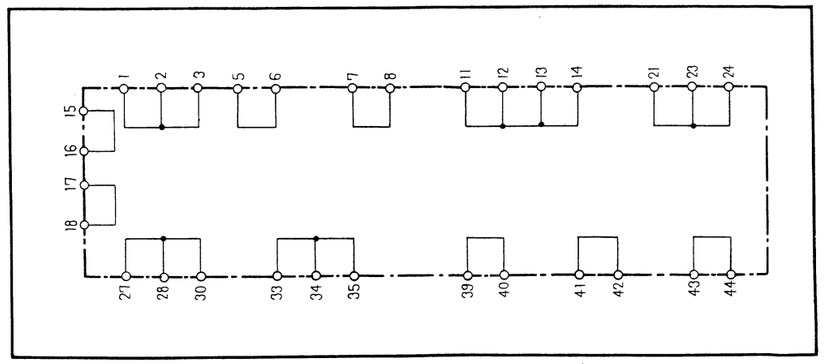
Symbol	Part No.	Description

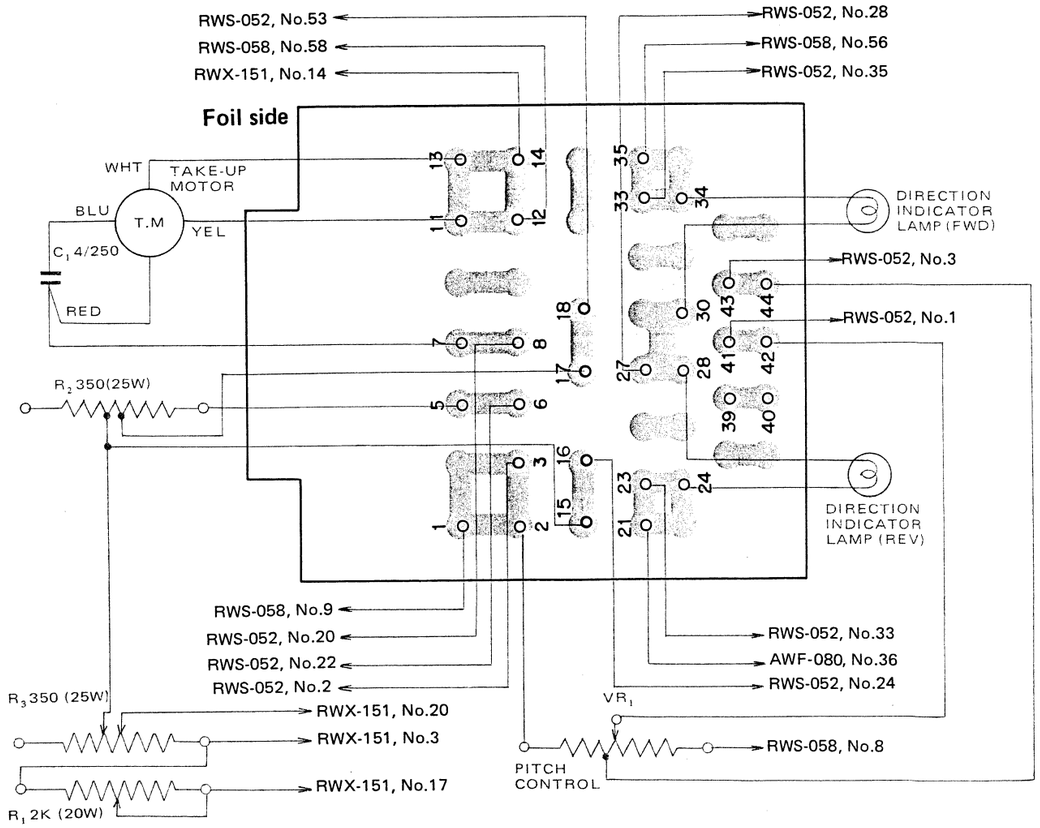
6.7 CONNECTOR ASSEMBLY L (RWX-151)



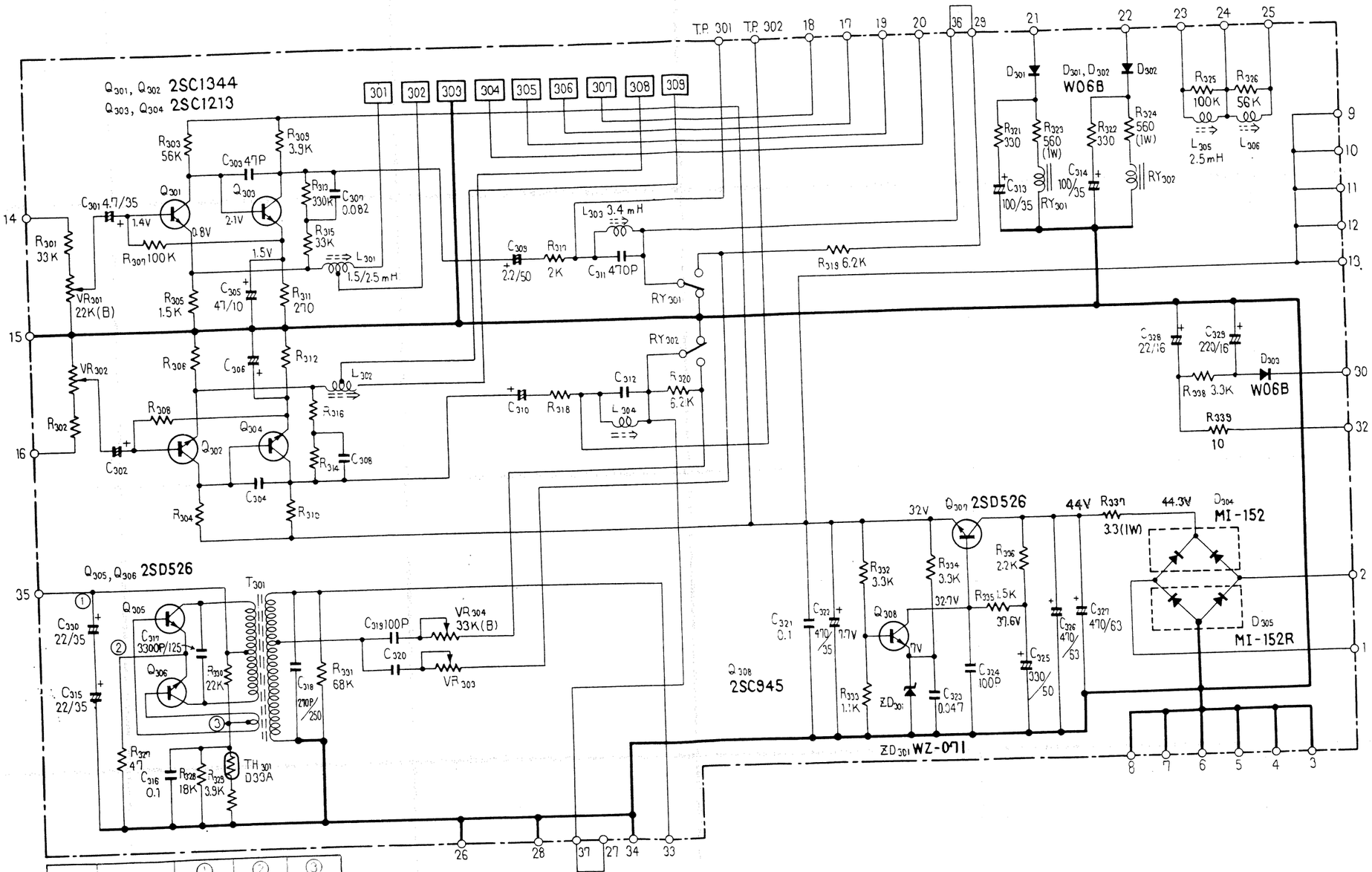


6.8 CONNECTOR ASSEMBLY R (RWX-152)

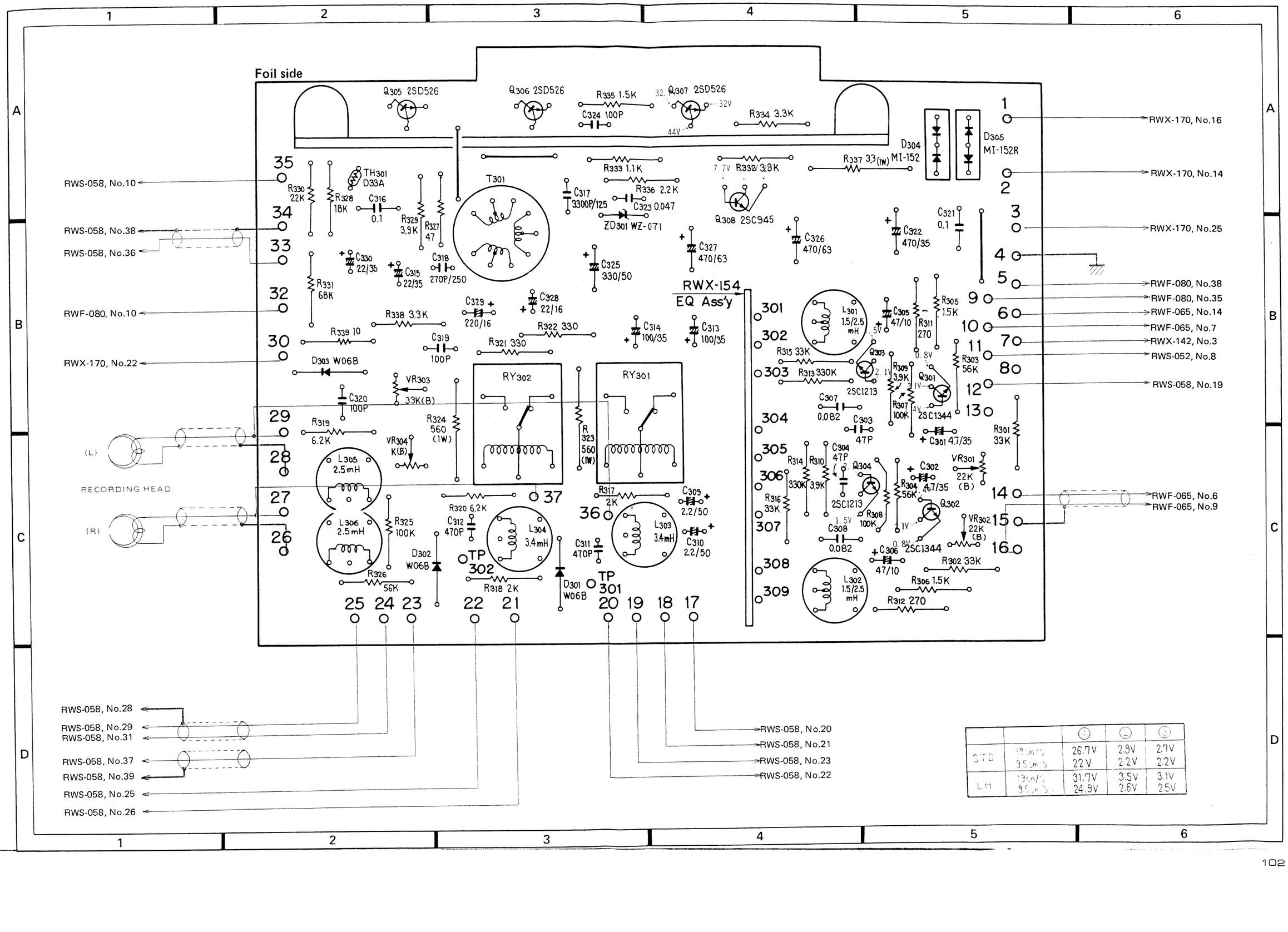




6.8 POWER AND OSCILLATION ASSEMBLY (RWR-058)



		①	②	③
STD	18cm/s	26.7V	2.9V	2.7V
	9.5cm/s	22V	2.2V	2.2V
LH	18cm/s	31.7V	3.5V	3.1V
	9.5cm/s	24.9V	2.6V	2.5V



		①	②	③
STD	19cm/s	26.7V	2.9V	2.7V
	9.5cm/s	22V	2.2V	2.2V
LH	19cm/s	31.7V	3.5V	3.1V
	9.5cm/s	24.9V	2.6V	2.5V

Parts List of Power and Oscillation Assembly (RWR-058)

TRANSFORMER AND COILS

Symbol	Part No.	Description
T301	RTD-013	OSC transformer
L301	RTF-014	Peaking coil
L302	RTF-014	Peaking coil
L303	RTF-013	Trap coil
L304	RTF-013	Trap coil
L305	RTD-014	Dummy coil
L306	RTD-014	Dummy coil

CAPACITORS

Symbol	Part No.	Description		
C301	CEA 4R7P 35	Electrolytic	4.7	35V
C302	CEA 4R7P 35	Electrolytic	4.7	35V
C303	CCDSL 470K 50	Ceramic	47p	50V
C304	CCDSL 470K 50	Ceramic	47p	50V
C305	CEA 470P 10	Electrolytic	47	10V
C306	CEA 470P 10	Electrolytic	47	10V
C307	CQMA 823K 50	Mylar	0.082	50V
C308	CQMA 823K 50	Mylar	0.082	50V
C309	CEA 2R2P 50	Electrolytic	2.2	50V
C310	CEA 2R2P 50	Electrolytic	2.2	50V
C311	RCE-014	Styrol	470p	50V
C312	RCE-014	Styrol	470p	50V
C313	CEA 101P 35	Electrolytic	100	35V
C314	CEA 101P 35	Electrolytic	100	35V
C315	CEA 220P 35	Electrolytic	22	35V
C316	CQMA 104K 50	Mylar	0.1	50V
C317	CQSA 332J 125	Styrol	0.0033	125V
C318	CQSA 271J 250	Styrol	270p	250V
C319	RCE-003	Styrol	100p	50V
C320	RCE-003	Styrol	100p	50V
C321	CQMA 104K 50	Mylar	0.1	50V
C322	CEA 471P 35	Electrolytic	470	35V
C323	CKDYF 473Z 50	Ceramic	0.047	50V
C324	CCDSL 101K 50	Ceramic	100p	50V
C325	CEA 331P 50	Electrolytic	330	50V
C326	CEA 471P 63	Electrolytic	470	63V
C327	CEA 471P 63	Electrolytic	470	63V
C328	CEA 220P 16	Electrolytic	22	16V
C329	CEA 221P 16	Electrolytic	220	16V
C330	CEA 220P 35	Electrolytic	22	35V

RESISTORS

Symbol	Part No.	Description	
VR301	C92-857	Semi fixed	22k-B
VR302	C92-857	Semi fixed	22k-B
VR303	C81-426	Semi fixed	33k-B
VR304	C81-426	Semi fixed	33k-B

Symbol	Part No.	Description		
R301	RD¼PS 333J	Carbon film	33k	
R302	RD¼PS 333J	Carbon film	33k	
R303	RD¼PS 563J	Carbon film	56k	
R304	RD¼PS 563J	Carbon film	56k	
R305	RD¼PS 152J	Carbon film	1.5k	
R306	RD¼PS 152J	Carbon film	1.5k	
R307	RD¼PS 104J	Carbon film	100k	
R308	RD¼PS 104J	Carbon film	100k	
R309	RD¼PS 392J	Carbon film	3.9k	
R310	RD¼PS 392J	Carbon film	3.9k	
R311	RD¼PS 271J	Carbon film	270	
R312	RD¼PS 271J	Carbon film	270	
R313	RD¼PS 334J	Carbon film	330k	
R314	RD¼PS 334J	Carbon film	330k	
R315	RD¼PS 333J	Carbon film	33k	
R316	RD¼PS 333J	Carbon film	33k	
R317	RD¼PS 202J	Carbon film	2k	
R318	RD¼PS 202J	Carbon film	2k	
R319	RD¼PS 622J	Carbon film	6.2k	
R320	RD¼PS 622J	Carbon film	6.2k	
R321	RD¼PSF331J	Carbon film	330	
R322	RD¼PSF 331J	Carbon film	330	
R323	RS1P 561J	Metal oxide	560	1W
R324	RS1P 561J	Metal oxide	560	1W
R325	RD¼PS 104J	Carbon film	100k	
R326	RD¼PS 563J	Carbon film	56k	
R327	RD¼PS 470J	Carbon film	47	
R328	RD¼PS 183J	Carbon film	18k	
R329	RD¼PS 392J	Carbon film	3.9k	
R330	RD¼PS 223J	Carbon film	22k	
R331	RD¼PS 683J	Carbon film	68k	
R332	RD¼PS 332J	Carbon film	3.3k	
R333	RD¼PS 112J	Carbon film	1.1k	
R334	RD¼PS 332J	Carbon film	3.3k	
R335	RD¼PS 152J	Carbon film	1.5k	
R336	RD¼PS 222J	Carbon film	2.2k	
R337	RN1PSF 3R3J	Metal film	3.3	1W
R338	RD¼PS 332J	Carbon film	3.3k	
R339	RD¼PS 100J	Carbon film	10	

SEMICONDUCTORS

Symbol	Part No.	Description
Q301	2SC1344-D or E	Transistor
Q302	2SC1344-D or E	Transistor
Q303	2SC1213-B or C	Transistor
Q304	2SC1213-B or C	Transistor
Q305	2SD526-0	Transistor
Q306	2SD526-0	Transistor
Q307	2SD526-0 or Y	Transistor
Q308	2SC945-P or Q	Transistor
D301	W 06B	Diode
D302	W 06B	Diode
D303	W 06B	Diode
D304	MI-152	Diode
D305	MI-152R	Diode
ZD301	WZ-071	Zener Diode
TH301	D33A	Thermistor

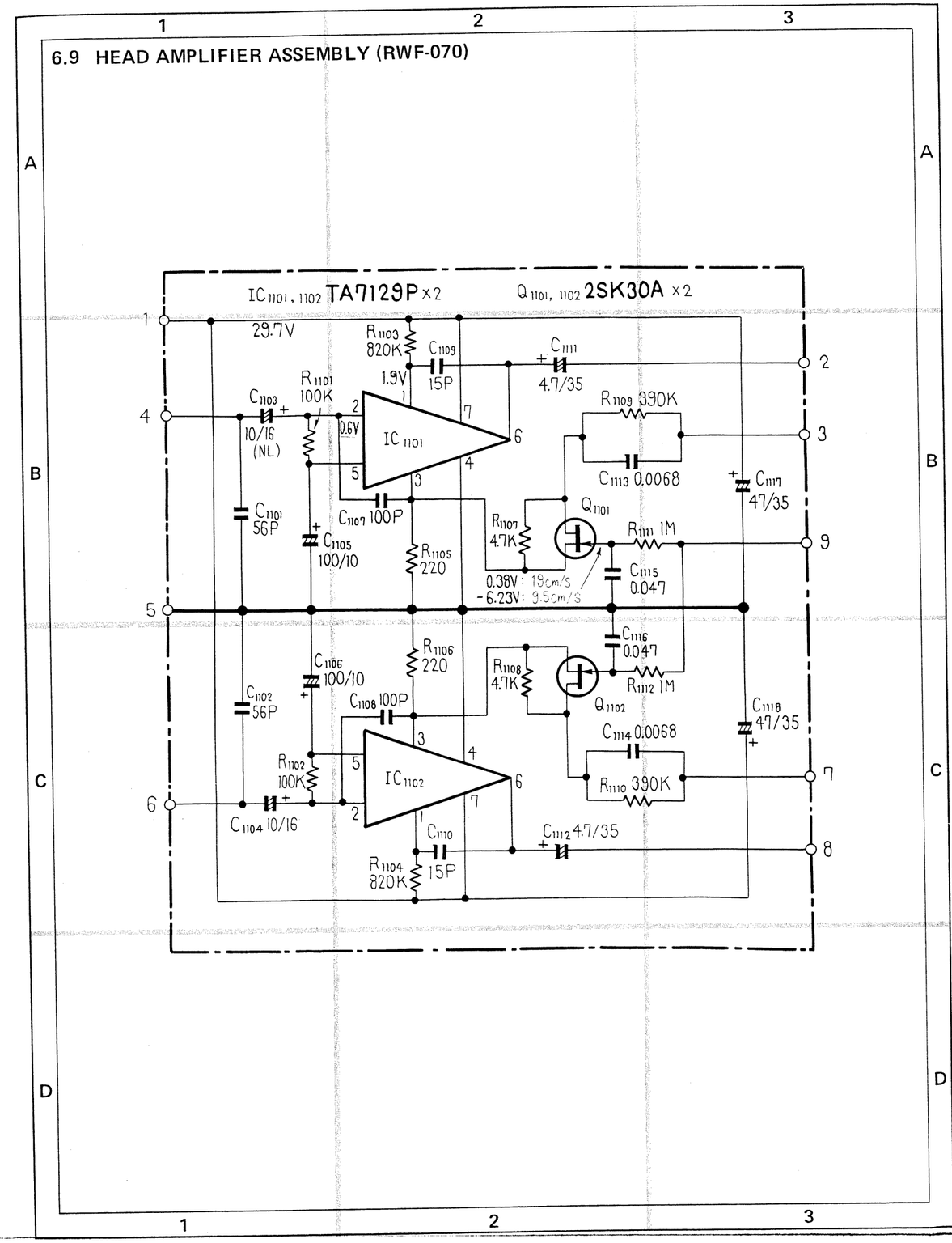
OTHERS

Symbol	Part No.	Description
RY301	RSP-018	Relay
RY302	RSP-018	Relay
	RNF-065	Heat Sink
	AKH-002	Tr socket
	REE-051	Insulator

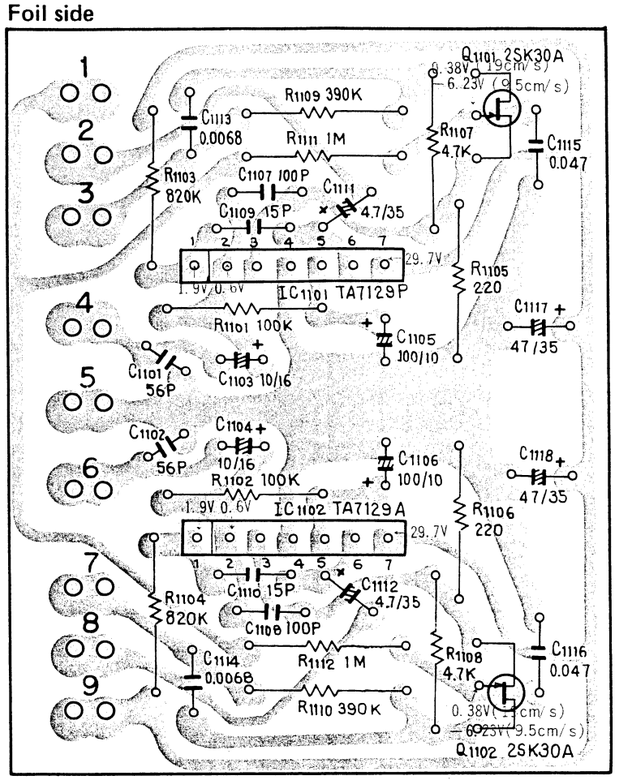
List of Changed Parts for Factory Modification

Symbol	Part No.	Description

6.9 HEAD AMPLIFIER ASSEMBLY (RWF-070)



Foil side



Parts List

CAPACITORS

Symbol	Part No.	Description		
C1101	RCE-004	Styrol	56p	50V
C1102	RCE-004	Styrol	56p	50V
C1103	RCH-018	Electrolytic	10	16V
C1104	RCH-018	Electrolytic	10	16V
C1105	CEA 101P 10	Electrolytic	100	10V
C1106	CEA 101P 10	Electrolytic	100	10V
C1107	CCDSL 101K 50	Ceramic	100p	50V
C1108	CCDSL 101K 50	Ceramic	100p	50V
C1109	CCDSL 150K 50	Ceramic	15p	50V
C1110	CCDSL 150K 50	Ceramic	15p	50V
C1111	CEA 4R7P 35	Electrolytic	4.7	35V
C1112	CEA 4R7P 35	Electrolytic	4.7	35V
C1113	CQMA 682K 50	Mylar	6800p	50V
C1114	CQMA 682K 50	Mylar	6800p	50V
C1115	CKDYF 473Z 50	Ceramic	0.047	50V
C1116	CKDYF 473Z 50	Ceramic	0.047	50V
C1117	CEA 470P 35	Electrolytic	47	35V
C1118	CEA 470P 35	Electrolytic	47	35V

RESISTORS

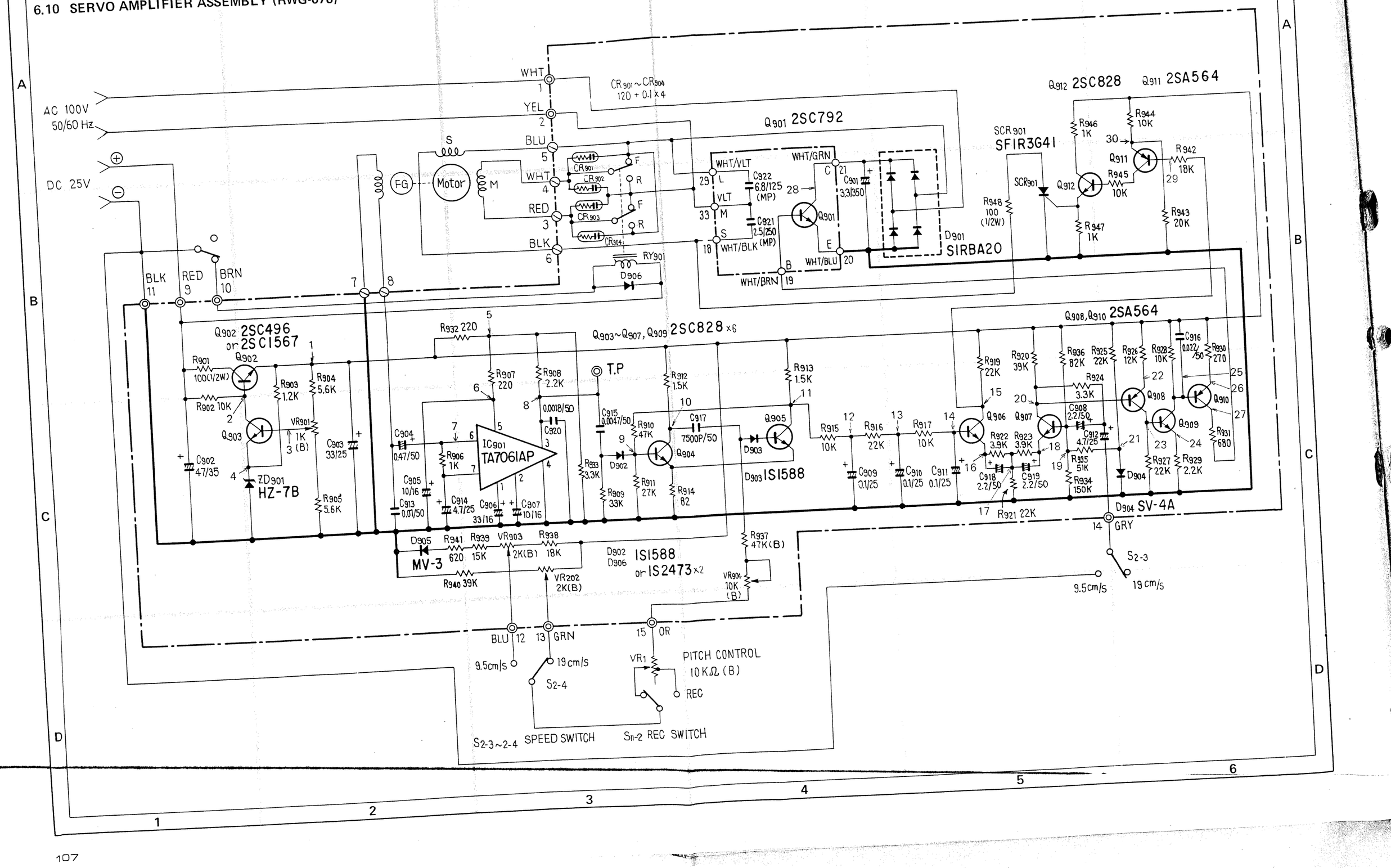
Symbol	Part No.	Description	
R1101	RD¼PS 104J	Carbon film	100k
R1102	RD¼PS 104J	Carbon film	100k
R1103	RD¼PS 824J	Carbon film	820k
R1104	RD¼PS 824J	Carbon film	820k
R1105	RD¼PS 221J	Carbon film	220
R1106	RD¼PS 221J	Carbon film	220
R1107	RD¼PS 472J	Carbon film	4.7k
R1108	RD¼PS 472J	Carbon film	4.7k
R1109	RD¼PS 394J	Carbon film	390k
R1110	RD¼PS 394J	Carbon film	390k
R1111	RD¼PS 105J	Carbon film	1M
R1112	RD¼PS 105J	Carbon film	1M

SEMICONDUCTORS

Symbol	Part No.	Description
IC1101	TA7129P	IC
IC1102	TA7129P	IC
Q1101	2SK30A-Y or O	FET
Q1102	2SK30A-Y or O	FET

6.10 SERVO AMPLIFIER ASSEMBLY (RWG-076)

NOTE:
The voltage at each measure points are indicated on page 111.



Foil side

RWS-058, No.0

RWS-058, No.P

RWS-058, No.Q

RWS-058, No.R

RWS-058, No.B

RWS-058, No.A

RWS-058, No.E

RWS-058, No.G

RWS-058, No.F

CM: Capstan motor
FG: Frequency generator

The Measurement Voltage of Servo Amplifier (RWG-076)

- The number of measurement points are indicated on page 107.
- The motor is non load situation.
- Prepare the high input impedance meter for measure the points 13 ~ 22.

Measurement point	Measurement Voltage (V)
1	15.0
2	15.6
3	7.7
4	7.0
5	10.8
6	7.6
7	2.0 (DC ingredient)
8	Fig. 12
9	Fig. 13
10	Fig. 14
11	Fig. 15
12	Fig. 16
13	6.1 (DC ingredient)
14	6.1 (DC ingredient)
15	10.8
16	5.6
17	4.8
18	4.9
19	5.5
20	14.1
21	1.42
22	14.8
23	0.7 (0.66)
24	0.14 (0.11)
25	14.6 (14.7)
26	0.71 (0.56)
27	15
28	Fig. 17
29	10.8
30	10.1

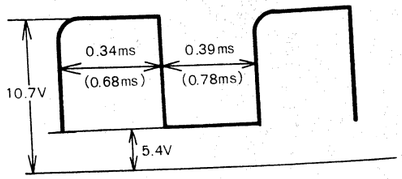


Fig. 12

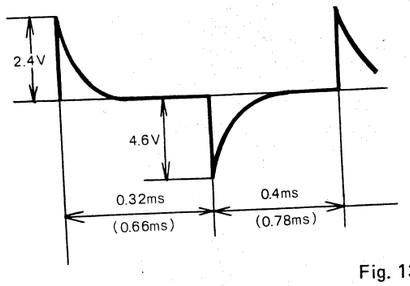


Fig. 13

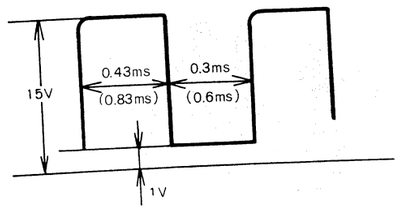


Fig. 14

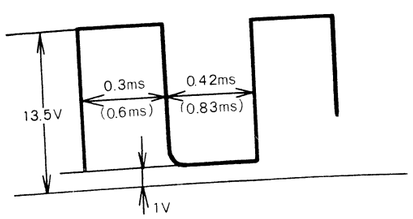


Fig. 15

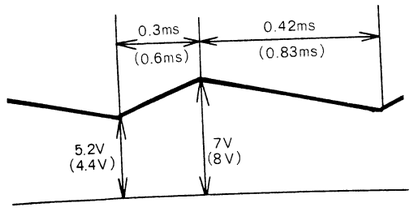


Fig. 16

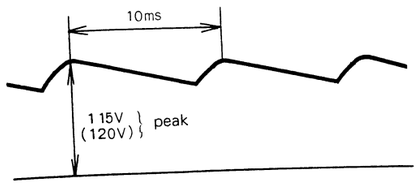


Fig. 17

Parts List of Servo Amplifier Assembly (RWG-076)

CAPACITORS

Symbol	Part No.	Description		
C901	RCH-029	Electrolytic	3.3	350V
C902	CEA 470P 35	Electrolytic	47	35V
C903	CEA 330P 25	Electrolytic	33	25V
C904	CEA 0R47P 50	Electrolytic	0.47	50V
C905	CEA 100P 16	Electrolytic	10	16V
C906	CEA 330P 16	Electrolytic	33	16V
C907	CEA 100P 16	Electrolytic	10	16V
C908	RCH-032	Electrolytic	2.2	50V
C909	CSSA 0R1M 25	Electrolytic	0.1	25V
C910	CSSA 0R1M 25	Electrolytic	0.1	25V
C911	CSSA 0R1M 25	Electrolytic	0.1	25V
C912	RCH-033	Electrolytic	4.7	25V
C913	CQMA 103K 50	Mylar	0.01	50V
C914	CEA 4R7P 25	Electrolytic	4.7	25V
C915	CQMA 472K 50	Mylar	0.0047	50V
C916	CQMA 223K 50	Mylar	0.022	50V
C917	RCE-027	Styrol	0.0075	50V
C918	RCH-032	Electrolytic	2.2	50V
C919	RCH-032	Electrolytic	2.2	50V
C920	CQMA 182K 50	Mylar	0.0018	50V
C921		Metallized paper	2.5	250V
C922		Electrolytic	6.8	125V

RESISTORS

Symbol	Part No.	Description		
VR901	RCP-036	Semi-fixed	1k-B	
VR902	RCP-034	Semi-fixed	2k-B	
VR903	RCP-034	Semi-fixed	2k-B	
VR904	RCP-035	Semi-fixed	10k-B	
R901	RD½PSF 101K	Carbon film	100	½W
R902	RD¼PSF 103K	Carbon film	10k	
R903	RD¼PS 122J	Carbon film	1.2k	
R904	RD¼PS 562J	Carbon film	5.6k	
R905	RD¼PS 562J	Carbon film	5.6k	
R906	RD¼PS 102J	Carbon film	1k	
R907	RD¼PS 221J	Carbon film	220	
R908	RD¼PS 222J	Carbon film	2.2k	
R909	RD¼PS 333J	Carbon film	33k	
R910	RD¼PS 473J	Carbon film	47k	
R911	RD¼PS 273J	Carbon film	27k	
R912	RD¼PS 152J	Carbon film	1.5k	

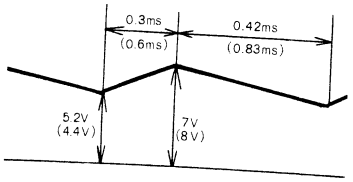


Fig. 16

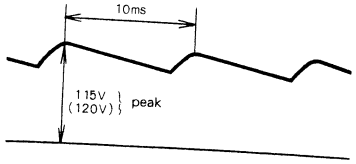


Fig. 17

Parts List of Servo Amplifier Assembly (RWG-076)

CAPACITORS

Symbol	Part No.	Description		
C901	RCH-029	Electrolytic	3.3	350V
C902	CEA 470P 35	Electrolytic	47	35V
C903	CEA 330P 25	Electrolytic	33	25V
C904	CEA 0R47P 50	Electrolytic	0.47	50V
C905	CEA 100P 16	Electrolytic	10	16V
C906	CEA 330P 16	Electrolytic	33	16V
C907	CEA 100P 16	Electrolytic	10	16V
C908	RCH-032	Electrolytic	2.2	50V
C909	CSSA 0R1M 25	Electrolytic	0.1	25V
C910	CSSA 0R1M 25	Electrolytic	0.1	25V
C911	CSSA 0R1M 25	Electrolytic	0.1	25V
C912	RCH-033	Electrolytic	4.7	25V
C913	CQMA 103K 50	Mylar	0.01	50V
C914	CEA 4R7P 25	Electrolytic	4.7	25V
C915	CQMA 472K 50	Mylar	0.0047	50V
C916	CQMA 223K 50	Mylar	0.022	50V
C917	RCE-027	Styrol	0.0075	50V
C918	RCH-032	Electrolytic	2.2	50V
C919	RCH-032	Electrolytic	2.2	50V
C920	CQMA 182K 50	Mylar	0.0018	50V
C921		Metallized paper	2.5	250V
C922		Electrolytic	6.8	125V

RESISTORS

Symbol	Part No.	Description		
VR901	RCP-036	Semi-fixed	1k-B	
VR902	RCP-034	Semi-fixed	2k-B	
VR903	RCP-034	Semi-fixed	2k-B	
VR904	RCP-035	Semi-fixed	10k-B	
R901	RD½PSF 101K	Carbon film	100	½W
R902	RD¼PSF 103K	Carbon film	10k	
R903	RD¼PS 122J	Carbon film	1.2k	
R904	RD¼PS 562J	Carbon film	5.6k	
R905	RD¼PS 562J	Carbon film	5.6k	
R906	RD¼PS 102J	Carbon film	1k	
R907	RD¼PS 221J	Carbon film	220	
R908	RD¼PS 222J	Carbon film	2.2k	
R909	RD¼PS 333J	Carbon film	33k	
R910	RD¼PS 473J	Carbon film	47k	
R911	RD¼PS 273J	Carbon film	27k	
R912	RD¼PS 152J	Carbon film	1.5k	
R913	RD¼PS 152J	Carbon film	1.5k	
R914	RD¼PS 820J	Carbon film	82	
R915	RD¼PS 103J	Carbon film	10k	
R916	RD¼PS 223J	Carbon film	22k	
R917	RD¼PS 103J	Carbon film	10k	
R918	----------	----------	----------	
R919	RD¼PS 223J	Carbon film	22k	
R920	RD¼PS 393J	Carbon film	39k	
R921	RD¼PS 223J	Carbon film	22k	
R922	RD¼PS 392J	Carbon film	3.9k	
R923	RD¼PS 392J	Carbon film	3.9k	
R924	RD¼PS 332J	Carbon film	3.3k	
R925	RD¼PS 223J	Carbon film	22k	
R926	RD¼PS 123J	Carbon film	12k	
R927	RD¼PS 223J	Carbon film	22k	
R928	RD¼PS 103J	Carbon film	10k	
R929	RD¼PS 222J	Carbon film	2.2k	
R930	RD¼PS 271J	Carbon film	270	
R931	RD¼PS 681J	Carbon film	680	
R932	RD¼PS 221J	Carbon film	220	
R933	RD¼PS 332J	Carbon film	3.3k	
R934	RD¼PS 154J	Carbon film	150k	
R935	RN¼PS 513G	Metal film	51k	
R936	RN¼PS 823G	Metal film	82k	
R937	RN¼PS 473G	Metal film	47k	
R938	RN¼PS 183G	Metal film	18k	
R939	RN¼PS 153G	Metal film	15k	
R940	RN¼PS 393G	Metal film	39k	
R941	RD¼PS 621J	Carbon film	620	
R942	RD¼PS 183J	Carbon film	18k	
R943	RD¼PS 203J	Carbon film	20k	
R944	RD¼PS 103J	Carbon film	10k	
R945	RD¼PS 103J	Carbon film	10k	
R946	RD¼PS 102J	Carbon film	1k	
R947	RD¼PS 102J	Carbon film	1k	
R948	RD½PSF 101K	Carbon film	100	½W

SEMICONDUCTORS

Symbol	Part No.	Description
IC901	TA 7061AP	IC
Q901	2SC792	Transistor
Q902	2SC496-Y or O or 2SC1567-R or S	Transistor
Q903	2SC828-R	Transistor
Q904	2SC828-R	Transistor
Q905	2SC828-R	Transistor
Q906	2SC828-R	Transistor
Q907	2SC828-R	Transistor
Q908	2SA564-Q	Transistor
Q909	2SC828-R	Transistor
Q910	2SA564-Q	Transistor
Q911	2SA564-Q	Transistor
Q912	2SC828-R	Transistor
D901	S1RBA20	Diode
D902	1S1588 or 1S2473	Diode
D903	1S1588	Diode
D904	SV-4A	Diode
D905	MV-3	Diode
D906	1S1588 or 1S2473	Diode
ZD901	HZ7B	Zener Diode
SCR961	SFIR3G41	Thyristor

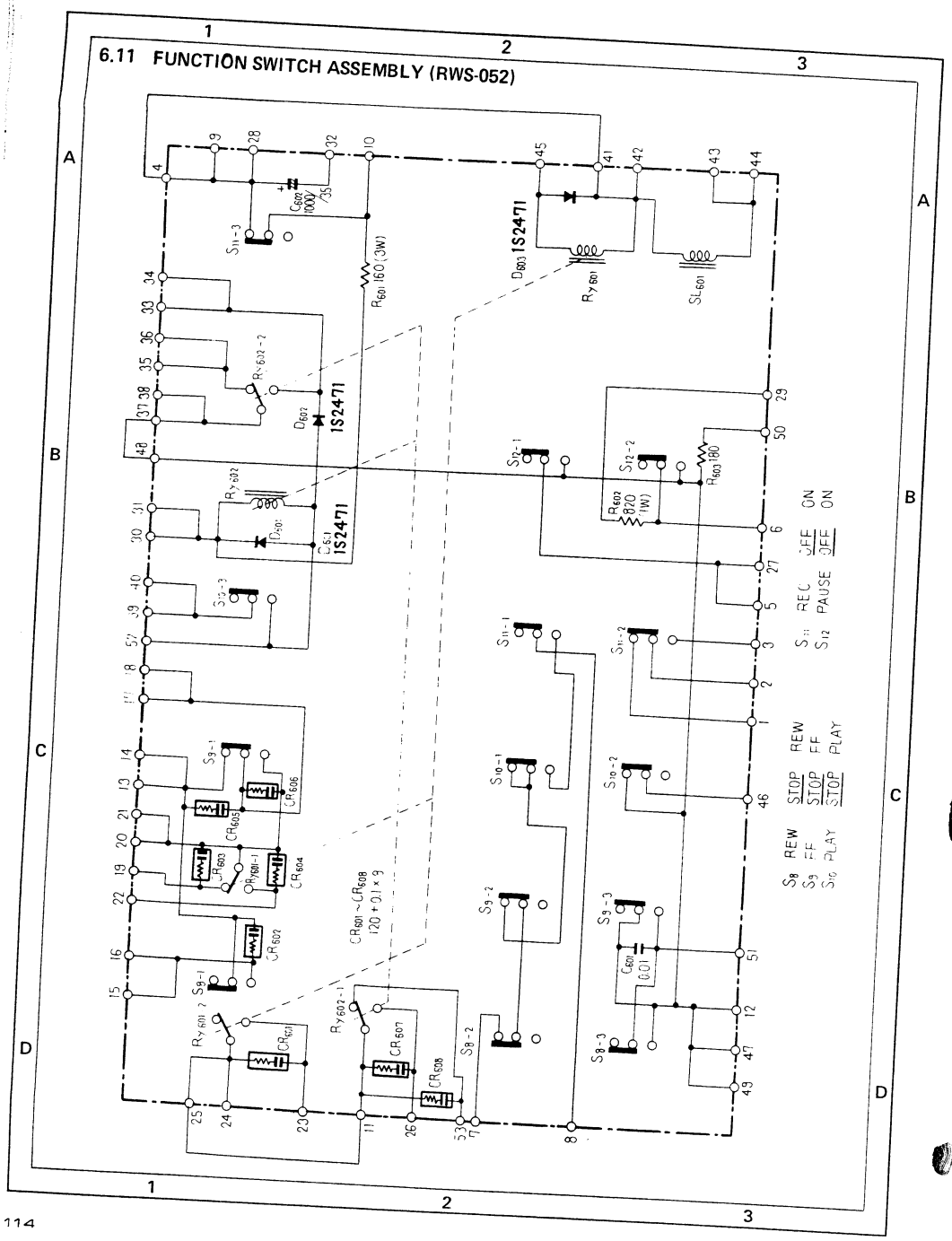
OTHERS

Symbol	Part No.	Description
RY901	RSR-016	Relay
CR901	RWX-030	Spark killer
CR902	RWX-030	Spark killer
CR903	RWX-030	Spark killer
CR904	RWX-030	Spark killer
	RKP-019	Connector socket assembly
	RKP-020	Connector
	REC-247	Insulator sheet
	AKH-001	Tr socket
	RNF-224	Heat sink

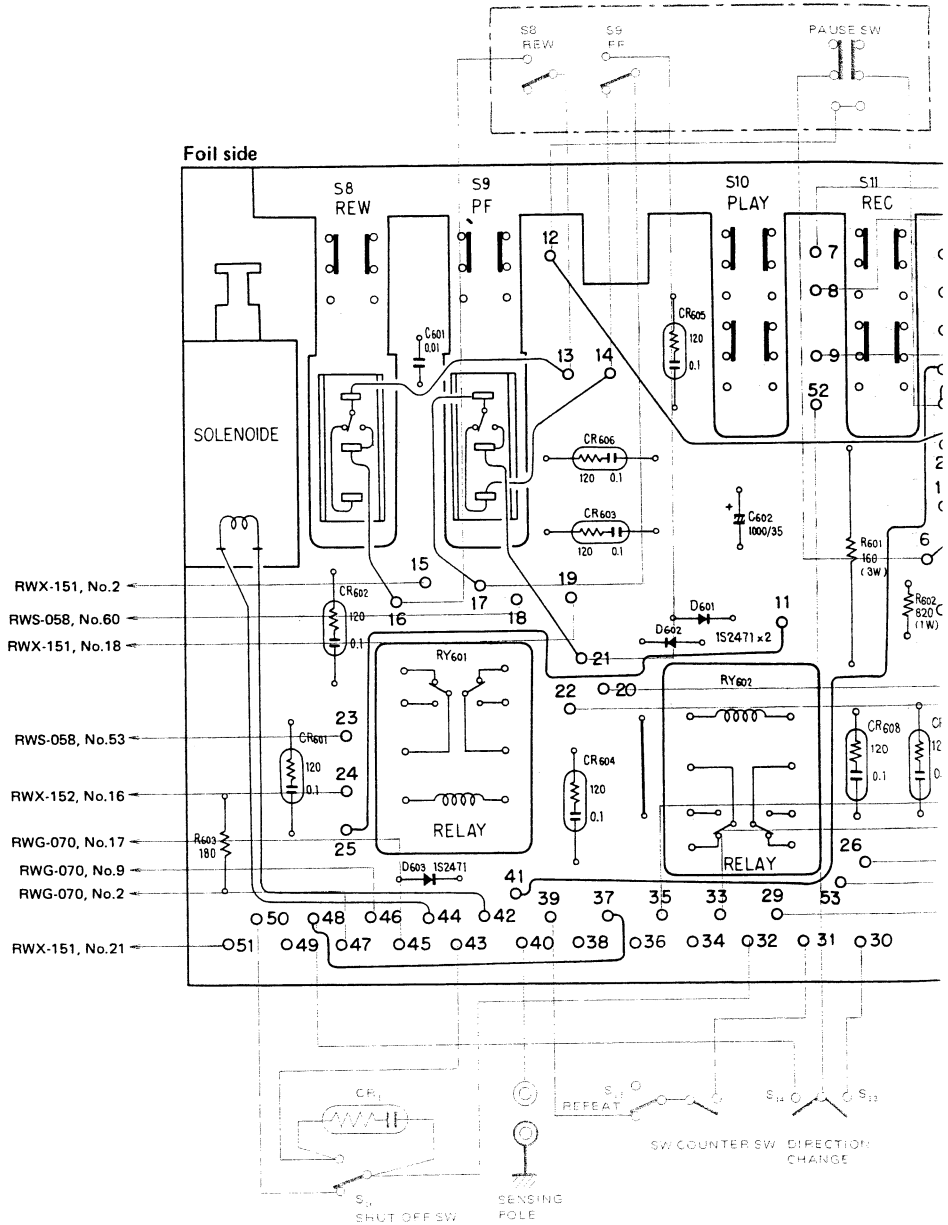
List of Changed Parts for Factory Modification

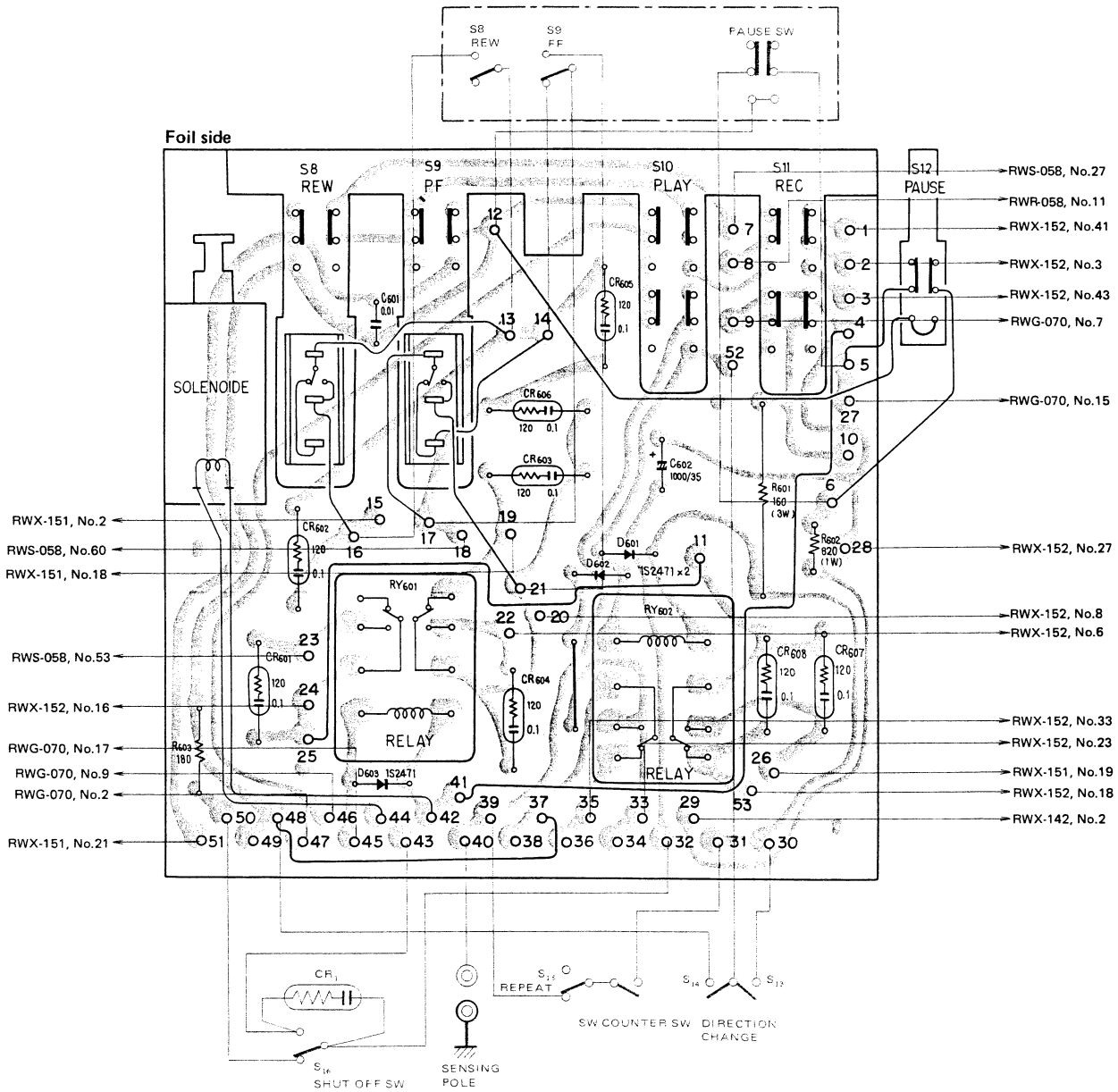
Symbol	Part No.	Description

6.11 FUNCTION SWITCH ASSEMBLY (RWS-052)



Foil side





Parts List

SWITCHES

Symbol	Part No.	Description
S8	RSG-050	Switch
S9	RSG-050	Switch
S10	RSG-050	Switch
S11	RSG-050	Switch
S12	RSG-048	Switch

CAPACITORS

Symbol	Part No.	Description		
C601	CKDYF 103Z 50	Ceramic	0.01	50V
C602	CEA 102P 35	Electrolytic	1,000	35V

RESISTORS

Symbol	Part No.	Description		
R601	RS3P 161J	Metal oxide	160	3W
R602	RS1P 821J	Metal oxide	820	1W
R603	RD¼PS 181J	Carbon film	180	

SEMICONDUCTOR

Symbol	Part No.	Description
D601	1S2471	Diode
D602	1S2471	Diode
D603	1S2471	Diode

OTHERS

Symbol	Part No.	Description
SL601	RXP-042	Solenoid (RELEASE)
RY601	RSR-016	Relay
RY602	RSR-022	Relay (12V)
CR601	RWX-030	Spark killer
CR602	RWX-030	Spark killer
CR603	RWX-030	Spark killer
CR604	RWX-030	Spark killer
CR605	RWX-030	Spark killer
CR606	RWX-030	Spark killer
CR607	RWX-030	Spark killer
CR608	RWX-030	Spark killer
	RNF-084	Release plate
	RBH-152	Release spring

6.12 SWITCH ASSEMBLY (RWS-059 . . . KC)
(RWS-058 . . . KU)

Parts List

SWITCHES

Symbol	Part No.	Description
S1	RSG-051	Push switch
S2	RSG-051	Push switch
S3	RSG-051	Push switch
S4	RSG-051	Push switch
S5	RSG-051	Push switch
S6	RSG-051	Push switch

CAPACITOR

Symbol	Part No.	Description		
C701	CQSA 221J 250	Styrol	220p	250V

RESISTORS

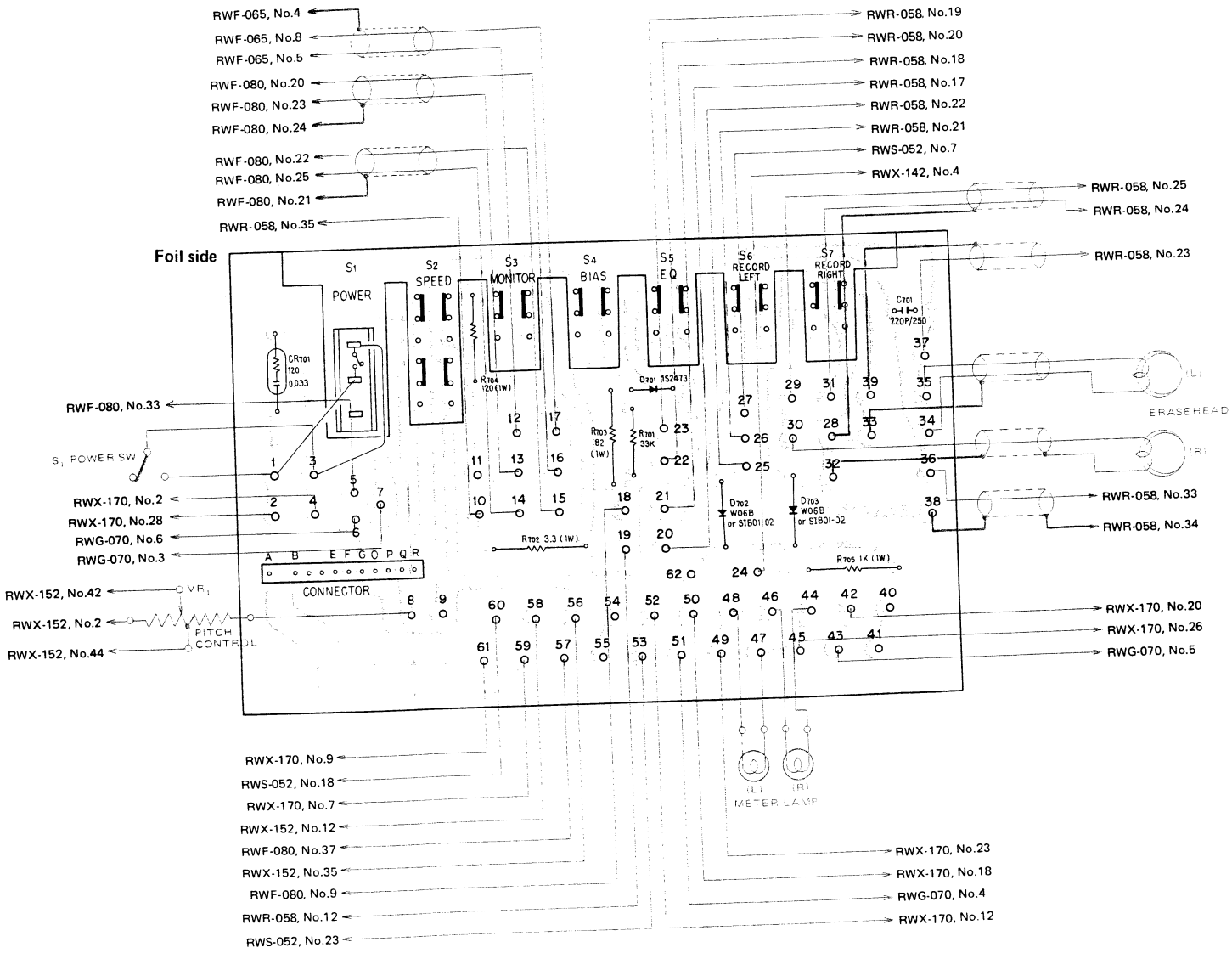
Symbol	Part No.	Description		
R701	RD¼PS 333J	Carbon film	33k	
R702	RN1PSF 3R3J	Metal film	3.3	1W
R703	RS1P 820J	Metal oxide	82	1W
R704	RS1P 121J	Metal oxide	120	1W
R705	RS1P 102J	Metal oxide	1k	1W

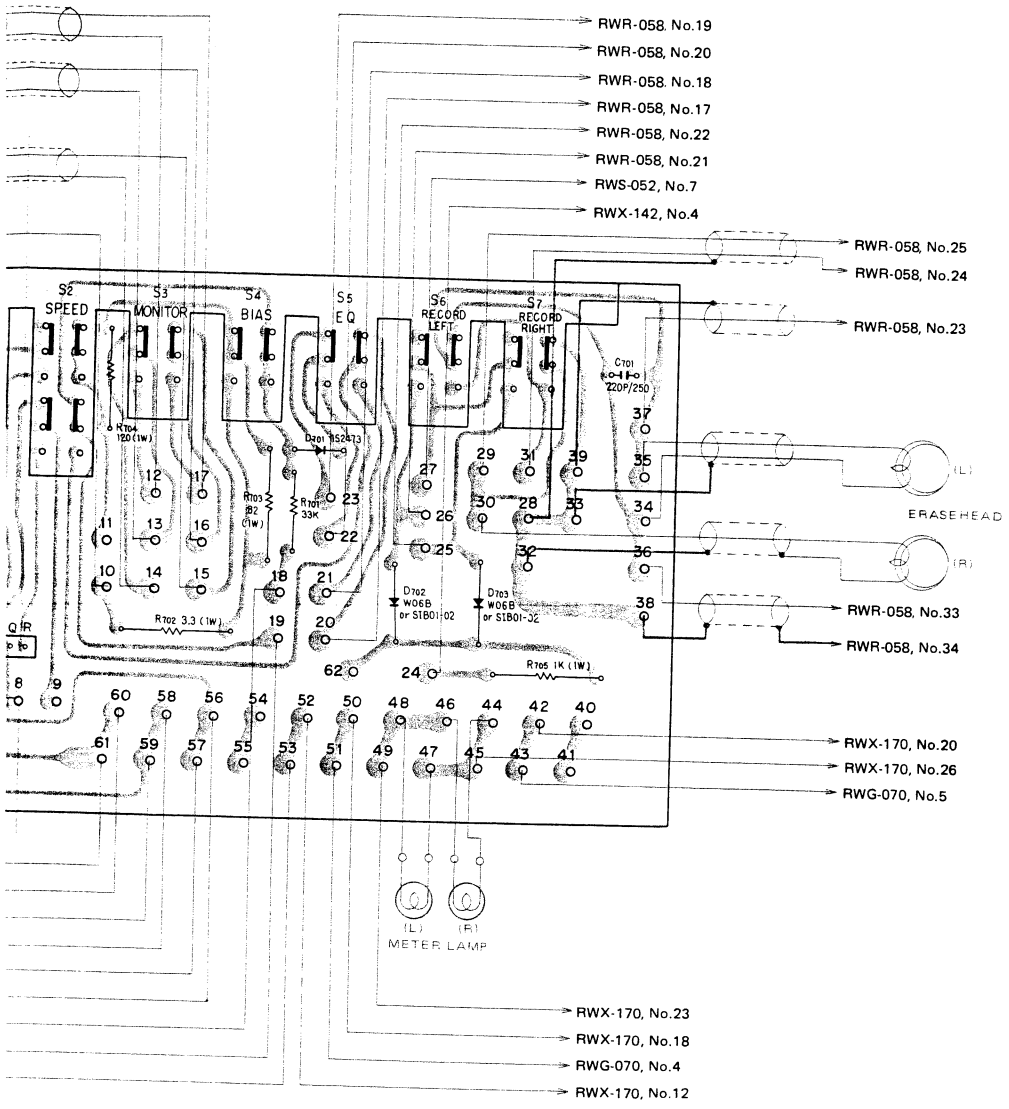
SEMICONDUCTORS

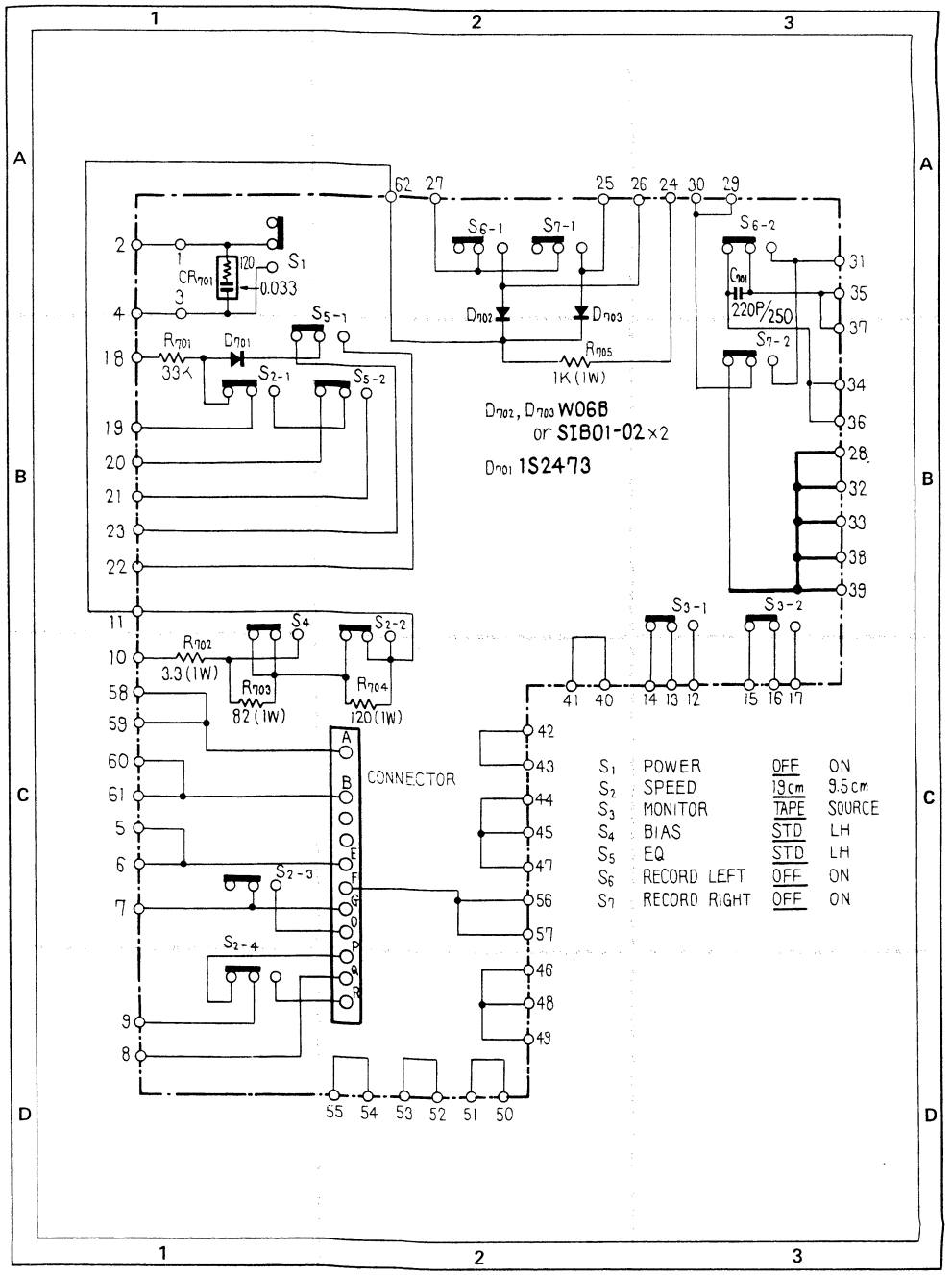
Symbol	Part No.	Description
D701	1S2473	Diode
D702	SIB01-02 or W06B	Diode
D703	SIB01-02 or W06B	Diode

OTHERS

Symbol	Part No.	Description
CR701	RWX-109	Spark killer (KU)
CR701	RWX-148	Spark killer (KC)
CR701	RWX-150	Spark killer (KC)
	AKP-018	Connector




RWR-058, No.19
RWR-058, No.20
RWR-058, No.18
RWR-058, No.17
RWR-058, No.22
RWR-058, No.21
RWS-052, No.7
RWX-142, No.4
RWR-058, No.25
RWR-058, No.24
RWR-058, No.23
S2 SPEED
S3 MONITOR
S4 BIAS
S5 EQ
S6 RECORD LEFT
S7 RECORD RIGHT
C701 220P/250
R704 120(1W)
D701 1S2473
R703 82 (1W)
R701 33K
R702 3.3 (1W)
R705 1K (1W)
D702 W06B or SIB01-02
D703 W06B or SIB01-32
(L)
(R)
ERASEHEAD
RWR-058, No.33
RWR-058, No.34
RWX-170, No.20
RWX-170, No.26
RWG-070, No.5
METER LAMP
RWX-170, No.23
RWX-170, No.18
RWG-070, No.4
RWX-170, No.12


S1 POWER OFF ON
S2 SPEED 19cm 9.5cm
S3 MONITOR TAPE SOURCE
S4 BIAS STD LH
S5 EQ STD LH
S6 RECORD LEFT OFF ON
S7 RECORD RIGHT OFF ON
CR701 120 0.033
S1
S6-1
S7-1
S6-2
C701 220P/250
S7-2
D702
D703
R705 1K (1W)
R701 33K
D701
S5-1
S2-1
S5-2
D702, D703 W06B or SIB01-02×2
D701 1S2473
R702 3.3(1W)
S4
S2-2
R703 82(1W)
R704 120(1W)
S3-1
S3-2
CONNECTOR
S2-3
S2-4

3-MOTOR 4-HEAD TAPE DECK

RT-707

HG

Additional

Service Manual

PIONEER®

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1. CONNECTION DIAGRAM FOR RT-707/HG 123
2. SCHEMATIC DIAGRAM, P.C. BOARD PATTERNS AND PARTS LISTS
   - 2.1 Schematic Diagram 125
   - 2.2 Fuse Assembly (RWX-185) 127
   - 2.3 Function Switch Assembly (RWS-066) 128
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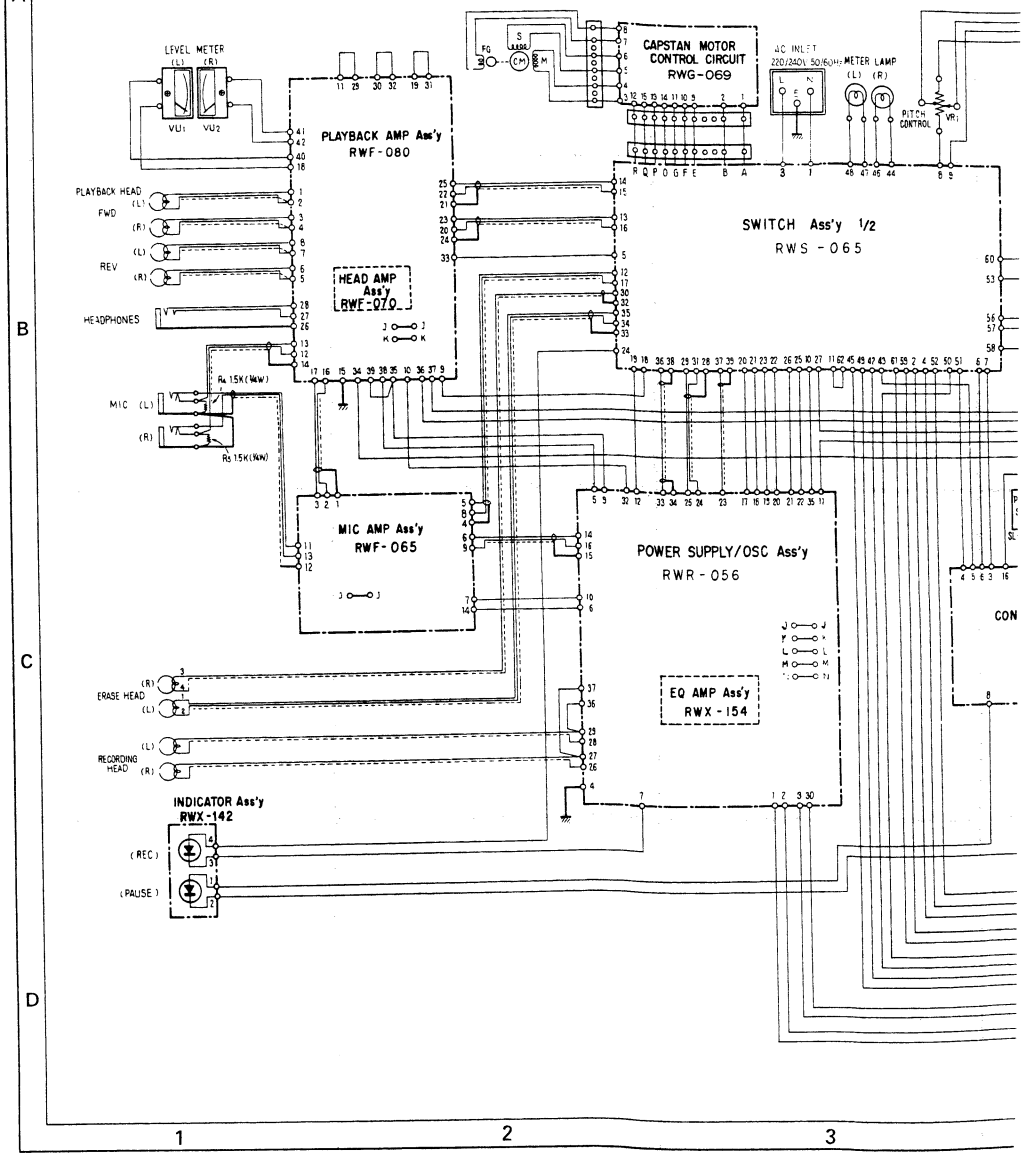
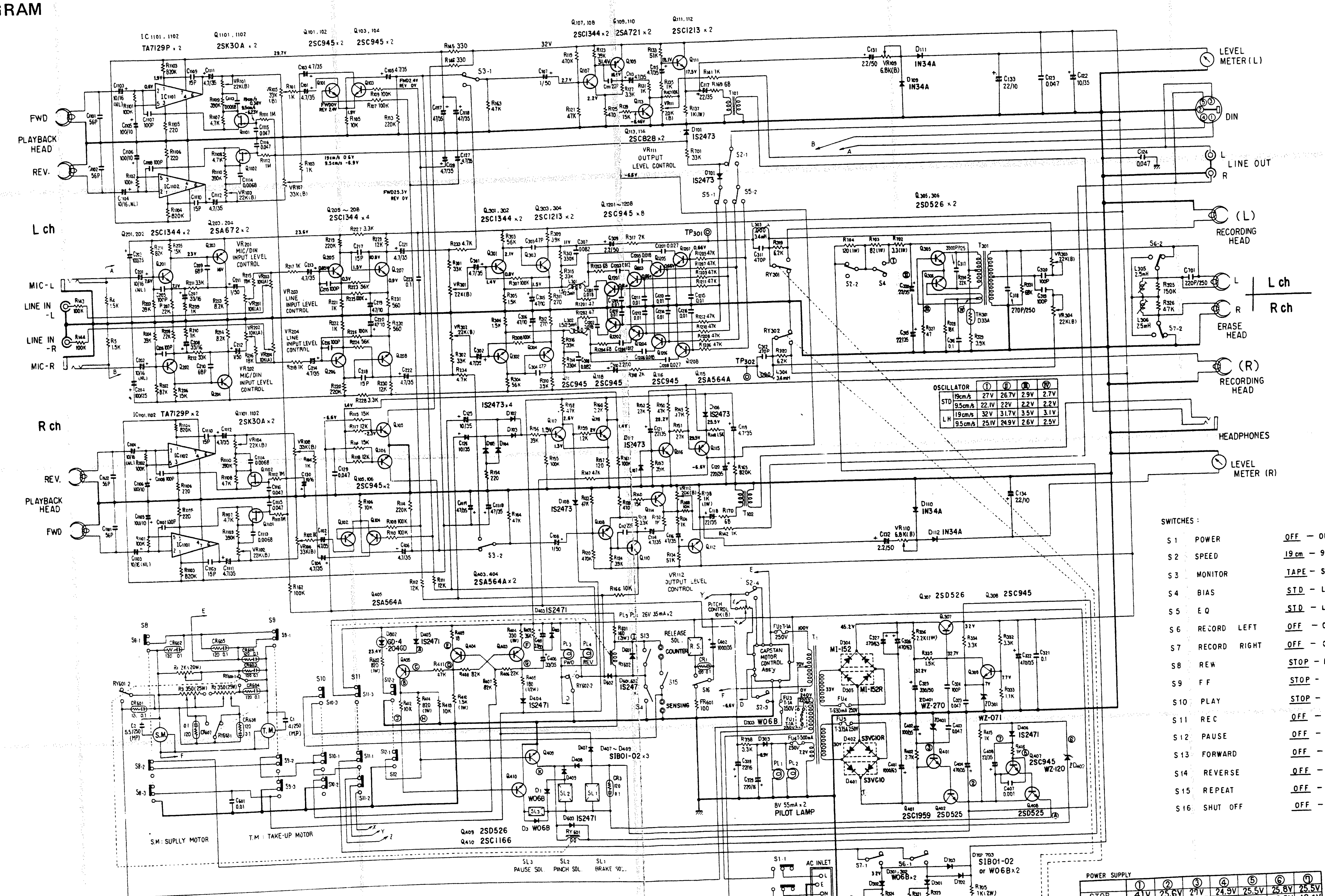
   - 2.7 Playback Amplifier Assembly (RWF-080) 143
   - 2.8 Servo. Amplifier Assembly (RWG-069) 149

1. CONNECTION DIAGRAM FOR RT-707/HG



2. SCHEMATIC DIAGRAM, P.C BOARD PATTERNS AND PARTS LISTS

2.1 SCHEMATIC DIAGRAM



OSCILLATOR		Ⅰ	Ⅱ	Ⅲ	Ⅳ
STD	19cm/s	27V	26.7V	2.9V	2.7V
	9.5cm/s	22.1V	22V	2.2V	2.2V
LH	19cm/s	32V	31.7V	3.5V	3.1V
	9.5cm/s	25.1V	24.9V	2.6V	2.5V

SWITCHES :

S1	POWER	OFF – ON
S2	SPEED	19cm – 9.5cm
S3	MONITOR	TAPE – SOURCE
S4	BIAS	STD – LH
S5	EQ	STD – LH
S6	RECORD LEFT	OFF – ON
S7	RECORD RIGHT	OFF – ON
S8	REW	STOP – REW
S9	FF	STOP – FF
S10	PLAY	STOP – PLAY
S11	REC	OFF – ON
S12	PAUSE	OFF – ON
S13	FORWARD	OFF – ON
S14	REVERSE	OFF – ON
S15	REPEAT	OFF – ON
S16	SHUT OFF	OFF – ON

CONTROL

	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	Ⓖ	Ⓗ	Ⓙ	Ⓚ	I
STOP	25.5V	0V	25.0V	25.4V	25.5V	25.8V	24.7V	0V	0V	25.5V	25.5V
PLAY	24.4V	24.3V	23.6V	1.8V	25.2V	25.2V	25.2V	0.8V	0.8V	0.3V	25.2V
PLAY/REC	24.4V	24.3V	23.6V	1.8V	25.2V	25.2V	25.2V	0.8V	0.8V	0.3V	0.1V
FAST	25.3V	0V	25.0V	25.2V	25.3V	25.6V	0.9V	0V	0V	25.5V	25.5V
PLAY/PAUSE	24.8V	24.4V	23.9V	1.8V	25.7V	25.6V	25.1V	0V	0.8V	25.5V	25.7V
										REV	13.6V

DC VOLTAGE AT NO INPUT SIGNAL

RESISTORS :
IN OHM 1/4W ±5% TOLERANCE UNLESS OTHERWISE NOTED K: kΩ M: MΩ

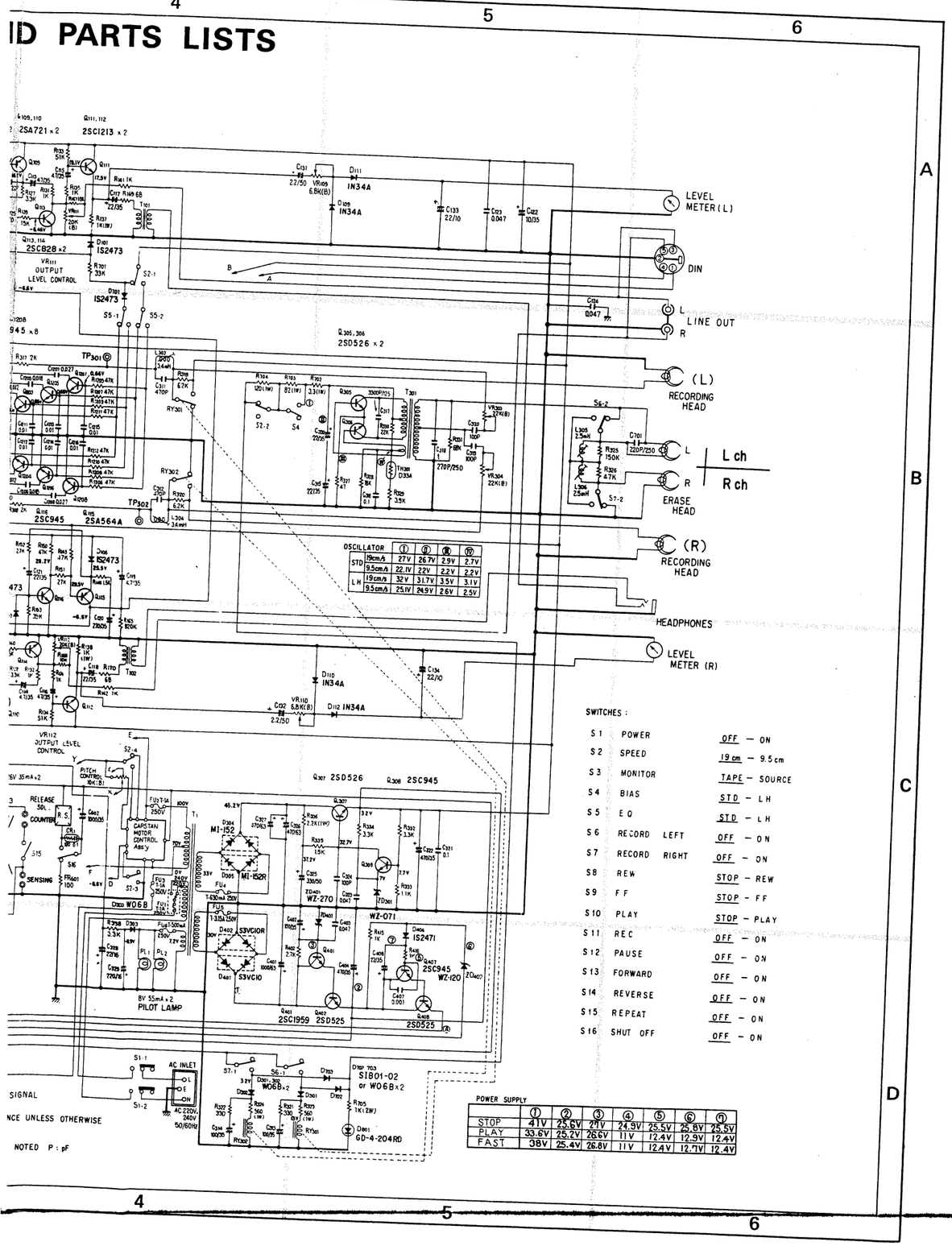
CAPACITORS
IN μF UNLESS OTHERWISE NOTED P: pF

POWER SUPPLY

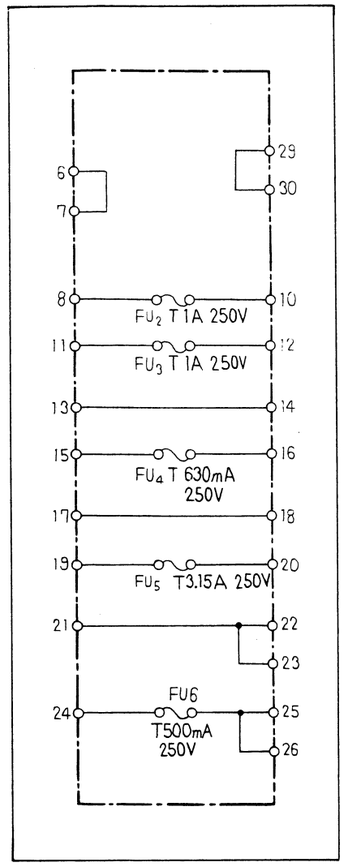
	①	②	③	④	⑤	⑥	⑦
STOP	41V	25.6V	27V	24.9V	25.5V	25.8V	25.5V
PLAY	33.6V	25.2V	26.6V	11V	12.4V	12.9V	12.4V
FAST	38V	25.4V	26.8V	11V	12.4V	12.7V	12.4V

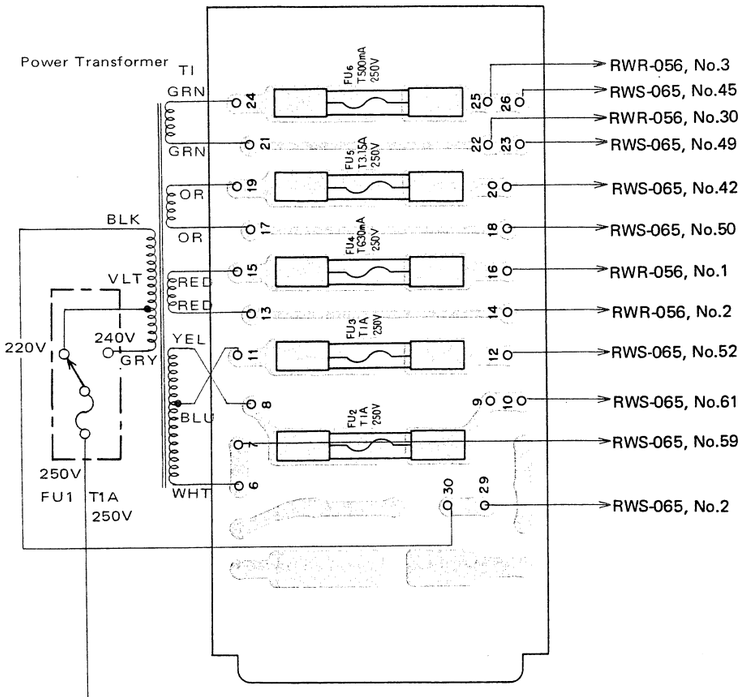
2.2

ID PARTS LISTS



2.2 FUSE ASSEMBLY (RWX-185)

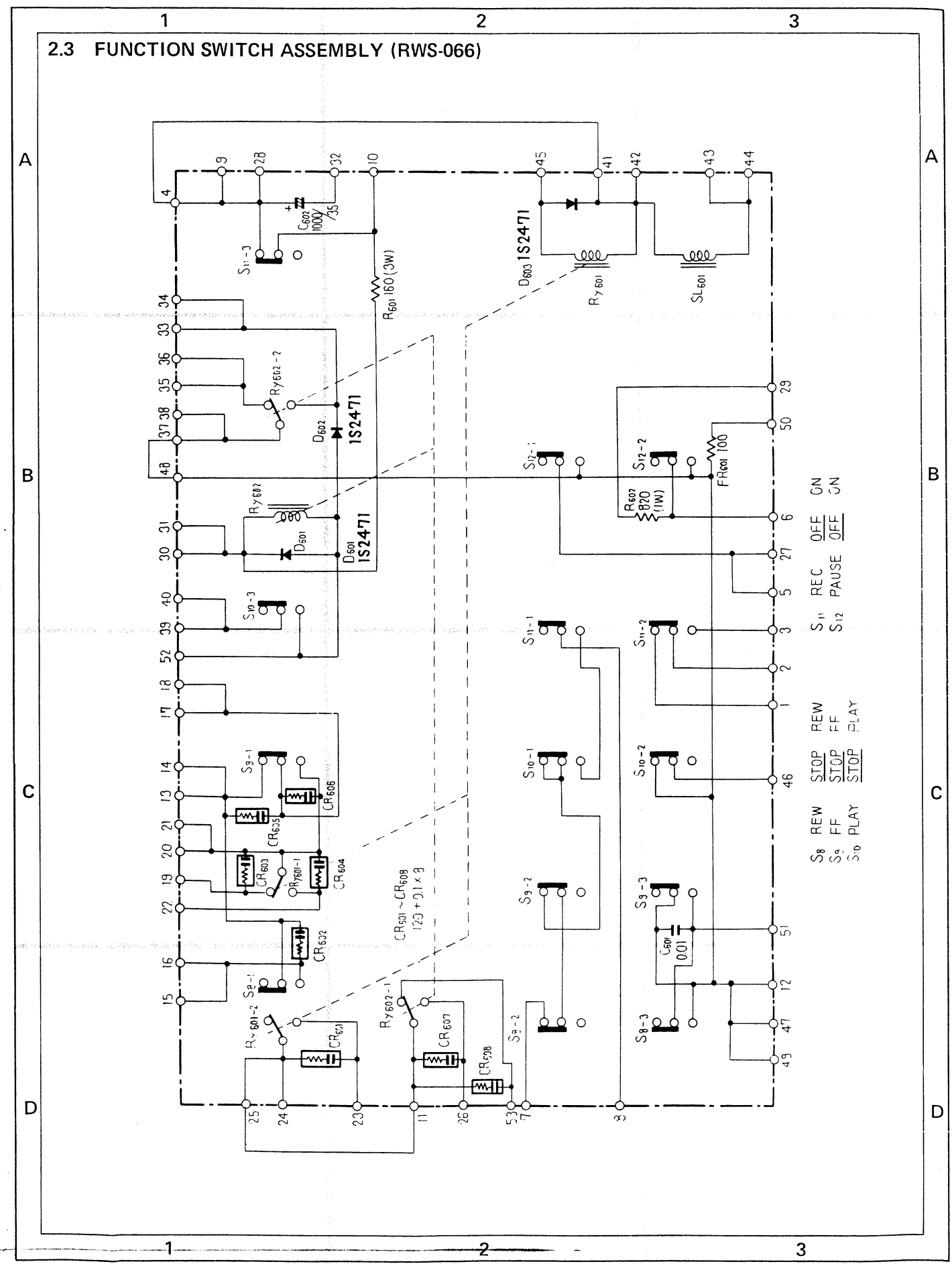


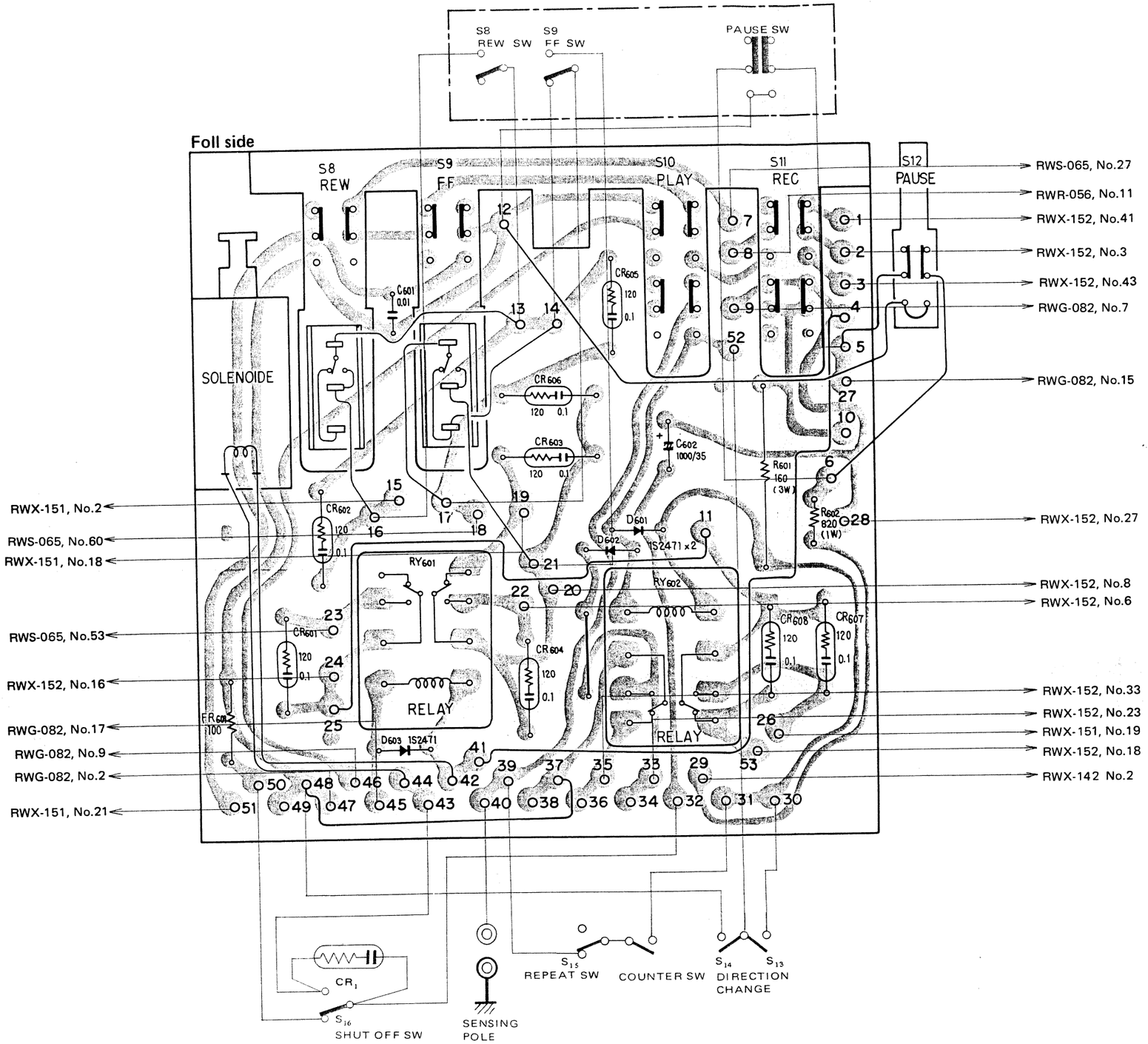


Parts List

Symbol	Part No.	Description
FU2	REK-056	Fuse
FU3	REK-056	Fuse
FU4	REK-061	Fuse
FU5	REK-047	Fuse
FU6	REK-049	Fuse
	RKR-013	Fuse clip

2.3 FUNCTION SWITCH ASSEMBLY (RWS-066)





Parts List

SWITCHES

Symbol	Part No.	Description
S8	RSG-050	Function switch
S9	RSG-050	Function switch
S10	RSG-050	Function switch
S11	RSG-050	Function switch
S12	RSG-048	Function switch

CAPACITORS

Symbol	Part No.	Description		
C601	CKDYF 103Z 50	Ceramic	0.01	50V
C602	CEA 102P 35	Electrolytic	1000	35V

RESISTORS

Symbol	Part No.	Description		
R601	RS3P 161J	Metal oxide	160	3W
R602	RS1P 821J	Metal oxide	820	1W
FR601	REK-062	Temperature responding resistor		

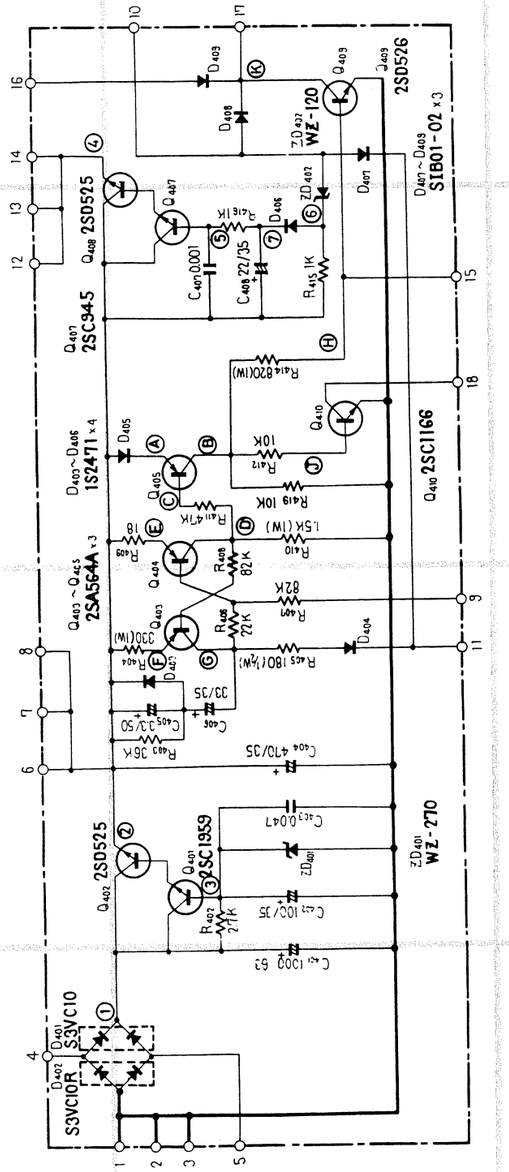
SEMICONDUCTORS

Symbol	Part No.	Description
D601	1S2471	Diode
D602	1S2471	Diode
D603	1S2471	Diode

OTHERS

Symbol	Part No.	Description
RY601	RSR-016	Relay
RY602	RSR-022	Relay
SL601	RXP-042	Solenoid
CR601	RWX-030	Spark killer
CR602	RWX-030	Spark killer
CR603	RWX-030	Spark killer
CR604	RWX-030	Spark killer
CR605	RWX-030	Spark killer
CR606	RWX-030	Spark killer
CR607	RWX-030	Spark killer
CR608	RWX-030	Spark killer

2.4 CONTROL ASSEMBLY (RWG-082)

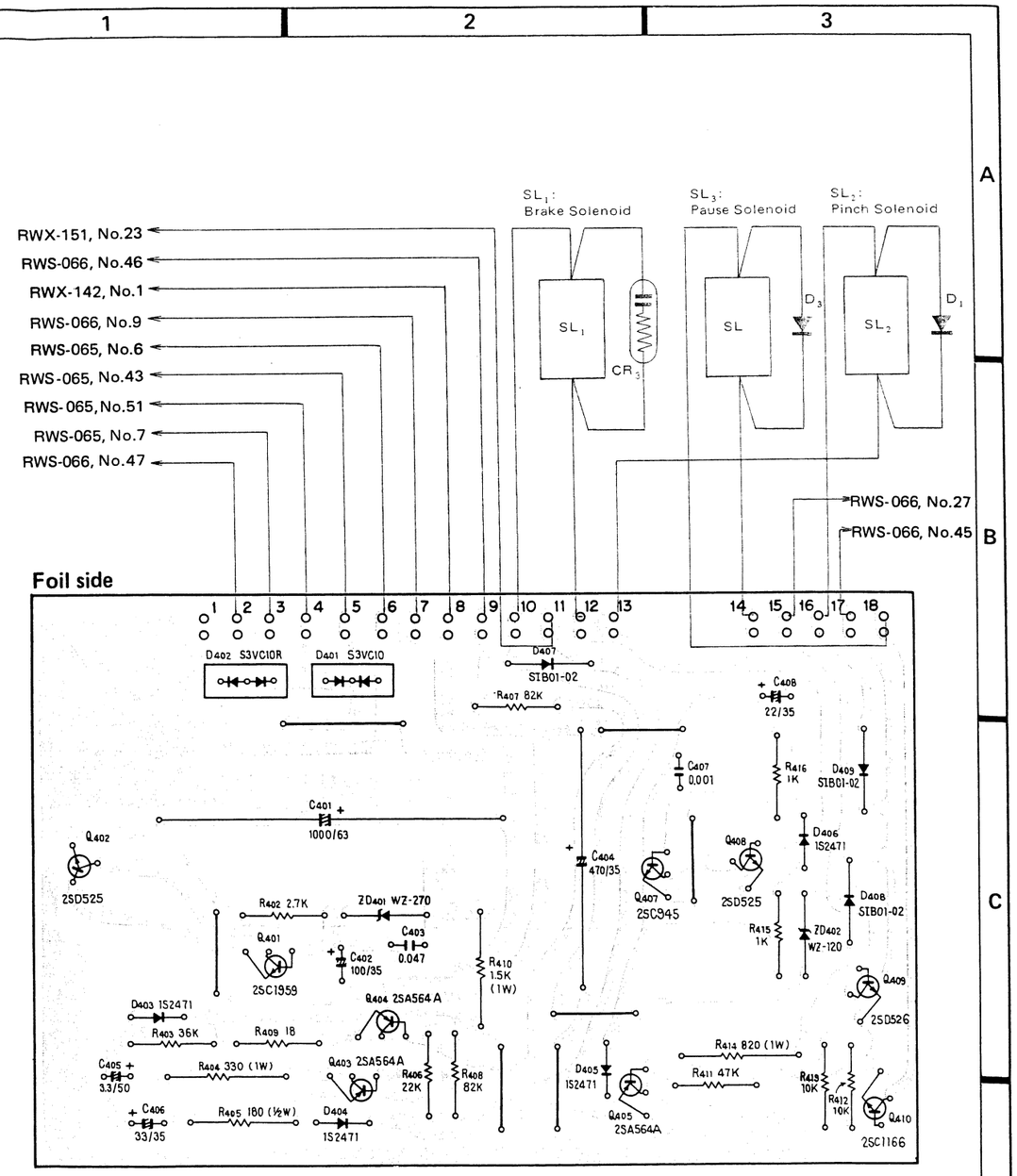


POWER SUPPLY

	①	②	③	④	⑤	⑥	⑦
STOP	41V	25.6V	27V	24.9V	25.5V	25.8V	25.5V
PLAY	33.6V	25.2V	26.6V	11V	12.4V	12.9V	12.4V
FAST	38V	25.4V	26.8V	11V	12.4V	12.7V	12.4V

CONTROL

	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	Ⓖ	Ⓗ	Ⓙ	Ⓚ
STOP	25.5V	0V	25.0V	25.4V	25.5V	25.8V	24.7V	0V	0V	25.5V
PLAY	24.4V	24.3V	23.6V	1.8V	25.2V	25.2V	25.2V	0.8V	0.8V	0.3V
PLAY/REC	24.4V	24.3V	23.6V	1.8V	25.2V	25.2V	25.2V	0.8V	0.8V	0.3V
FAST	25.3V	0V	25.0V	25.2V	25.3V	25.6V	0.9V	0V	0V	25.5V
PLAY/PAUSE	24.8V	24.4V	23.3V	1.8V	25.7V	25.6V	25.1V	0V	0.8V	25.5V



Parts List

CAPACITORS

Symbol	Part No.	Description		
C401	CEB 102P 63	Electrolytic	1000	63V
C402	CEA 101P 35	Electrolytic	100	35V
C403	CQMA 473K 50	Mylar	0.047	50V
C404	CEB 471P 35	Electrolytic	470	35V
C405	CEA 3R3P 50	Electrolytic	3.3	50V
C406	CEA 330P 35	Electrolytic	33	35V
C407	CQMA 102K 50	Mylar	0.001	50V
C408	CEA 220P 35	Electrolytic	22	35V

RESISTORS

Symbol	Part No.	Description		
R402	RD¼PS 272J	Carbon film	2.7k	
R403	RD¼PS 363J	Carbon film	36k	
R404	RN1PSF 331J	Metal film	330	1W
R405	RD½PSF 181J	Carbon film	180	½W
R406	RD¼PS 223J	Carbon film	22k	
R407	RD¼PS 823J	Carbon film	82k	
R408	RD¼PS 823J	Carbon film	82k	
R409	RD¼PS 180J	Carbon film	18	
R410	RS1P 152J	Metal oxide	1.5k	1W
R411	RD¼PS 473J	Carbon film	47k	
R412	RD¼PS 103J	Carbon film	10k	
R414	RS1P 821J	Metal oxide	820	1W
R415	RD¼PS 102J	Carbon film	1k	
R416	RD¼PS 102J	Carbon film	1k	
R419	RD¼PS 103J	Carbon film	10k	

SEMICONDUCTORS

Symbol	Part No.	Description
Q401	2SC1959-Y	Transistor
Q402	2SD525-O or Y	Transistor
Q403	2SA564A-R or S	Transistor
Q404	2SA564A-R or S	Transistor
Q405	2SA564A-R or S	Transistor
Q406		
Q407	2SC945-P or Q	Transistor
Q408	2SD525-O or Y	Transistor
Q409	2SD526-O or Y	Transistor
Q410	2SC1166-O or Y	Transistor
D401	S3VC10	Diode
D402	S3VC10R	Diode
D403	1S2471	Diode
D404	1S2471	Diode
D405	1S2471	Diode
D406	1S2471	Diode
D407	SIB01-02	Diode
D408	SIB01-02	Diode
D409	SIB01-02	Diode

Symbol	Part No.	Description
ZD401	WZ-270	Zener Diode
ZD402	WZ-120	Zener Diode

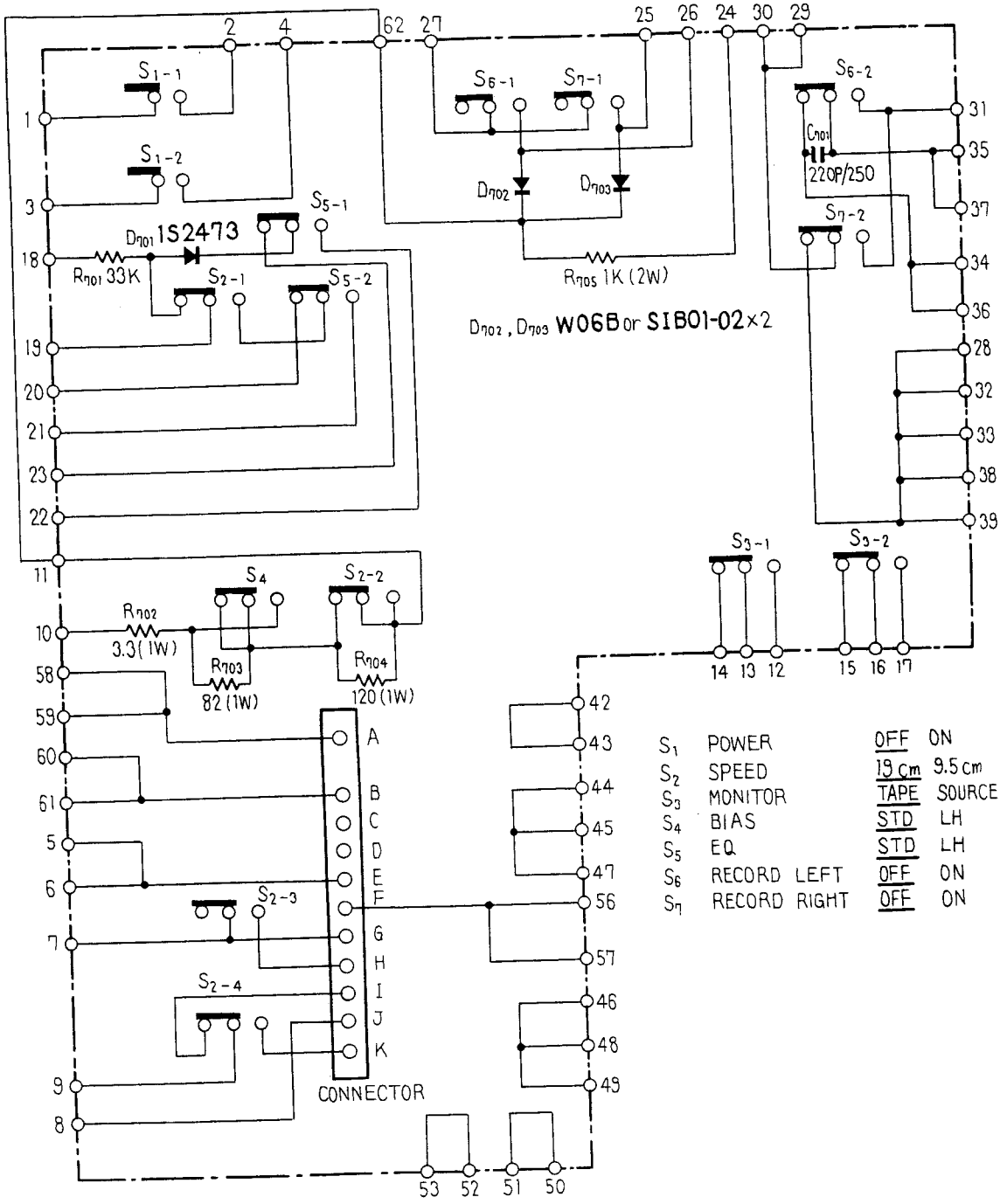
OTHERS

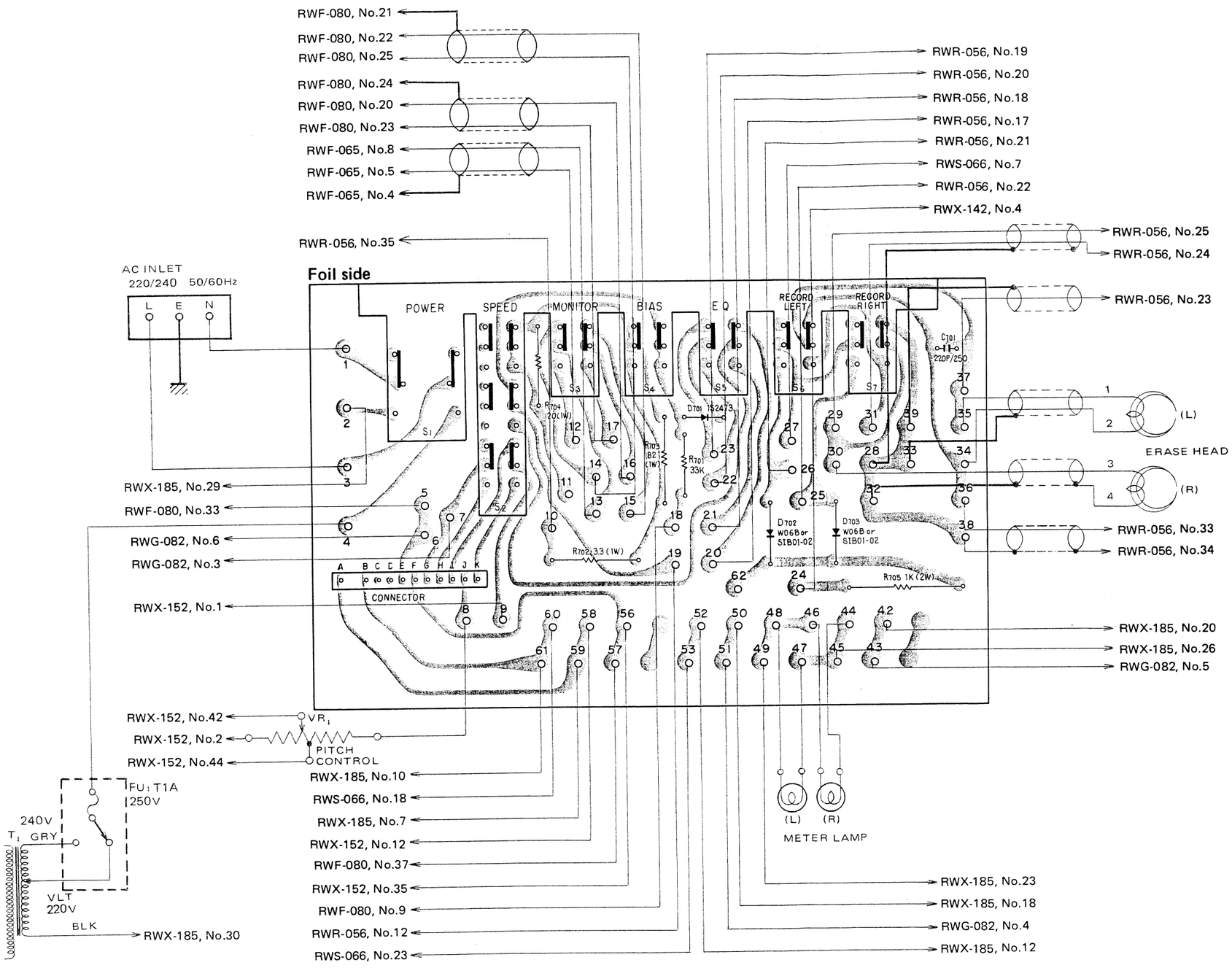
Symbol	Part No.	Description
	REE-051	Insulator spacer
	AKH-002	Tr socket
	RNF-083	Heat sink

List of Changed Parts for Factory Modification

Symbol	Part No.	Description

2.5 SWITCH ASSEMBLY (RWS-065)





Parts List

SWITCHES

Symbol	Part No.	Description
S1	RSG-054	Push switch
S2	RSG-054	Push switch
S3	RSG-054	Push switch
S4	RSG-054	Push switch
S5	RSG-054	Push switch
S6	RSG-054	Push switch

CAPACITOR

Symbol	Part No.	Description		
C701	CQSA 221J 250	Styrol	220p	250V

RESISTORS

Symbol	Part No.	Description		
R701	RD¼PS 333J	Carbon film	33k	
R702	RN1PSF 3R3J	Metal film	3.3	1W
R703	RS1P 820J	Metal oxide	82	1W
R704	RS1P 121J	Metal oxide	120	1W
R705	RS2P 102J	Metal oxide	1k	2W

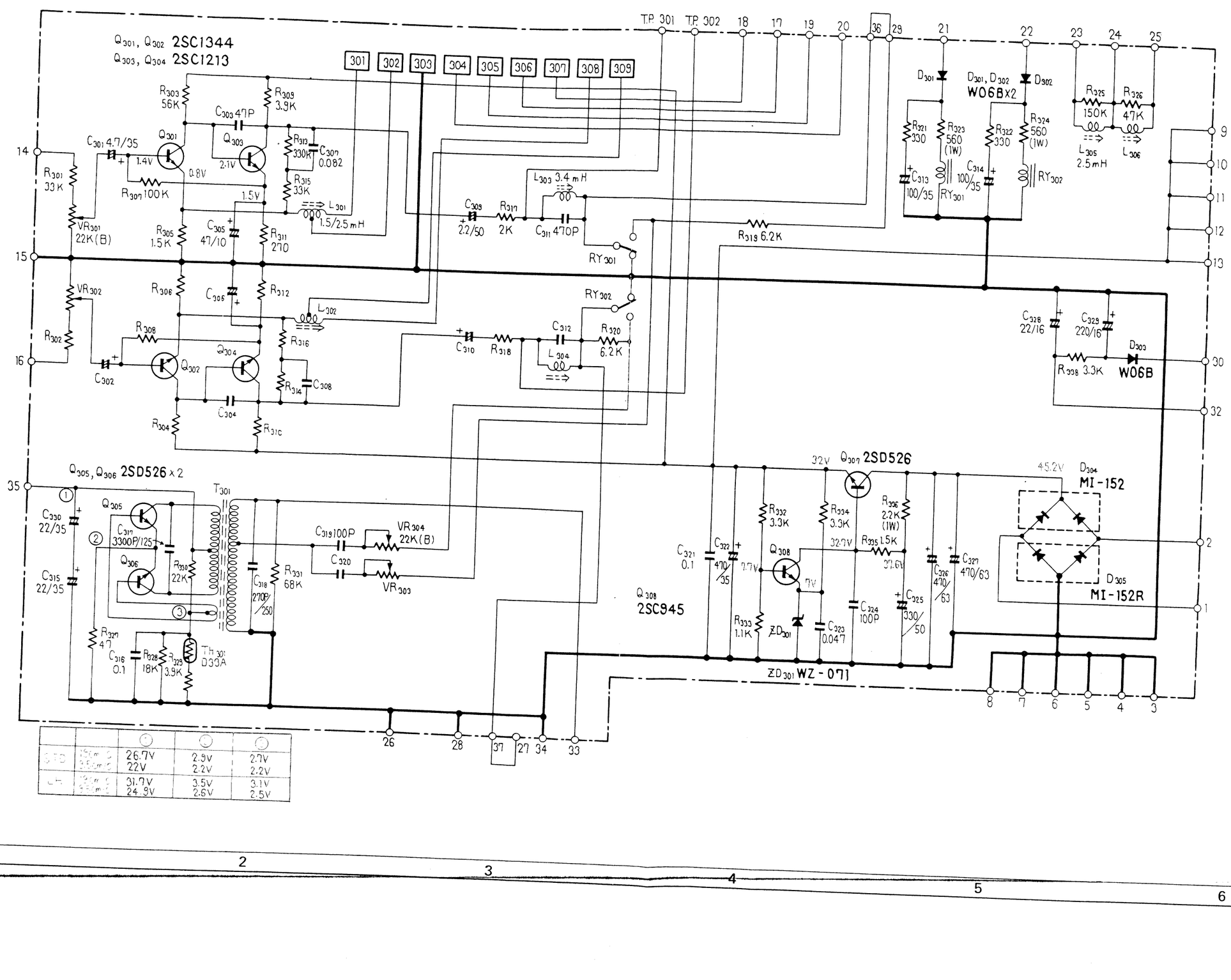
SEMICONDUCTORS

Symbol	Part No.	Description
D701	1S2473	Diode
D702	SIB01-01 or W06B	Diode
D703	SIB01-01 or W06B	Diode

OTHER

Symbol	Part No.	Description
	RKP-018	Connector

2.6 POWER AND OSCILLATION ASSEMBLY (RWR-056)



		①	②	③
STD	15cm 3.5cm	26.7V 22V	2.9V 2.2V	2.7V 2.2V
LH	15cm 3.5cm	31.7V 24.9V	3.5V 2.6V	3.1V 2.5V

Foil side

RWS-065, No.10
RWS-065, No.38
RWS-065, No.36
RWF-080, No.10
RWX-185, No.22
(L)
RECORDING HEAD
(R)
RWS-065, No.28
RWS-065, No.29
RWS-065, No.31
RWS-065, No.39
RWS-065, No.37
RWS-065, No.25
RWS-065, No.26
RWS-065, No.20
RWS-065, No.21
RWS-065, No.23
RWS-065, No.22
RWX-185, No.16
RWX-185, No.14
RWX-185, No.25
RWF-080, No.38
RWF-080, No.35
RWF-065, No.14
RWF-065, No.7
RWX-142, No.3
RWS-066, No.8
RWS-065, No.19
RWF-065, No.6
RWF-065, No.9

RWX-154
EQ Ass'y

		①	②	③
STD	19cm/s 9.5cm/s	26.7V 22V	2.9V 2.2V	2.7V 2.2V
LH	19cm/s 9.5cm/s	31.7V 24.9V	3.5V 2.6V	3.1V 2.5V

Parts List of Power and Oscillation Assembly (RWR-056)

TRANSFORMER AND COILS

Symbol	Part No.	Description
T301	RTD-013	OSC transformer
L301	RTF-014	Peaking coil
L302	RTF-014	Peaking coil
L303	RTF-013	Trap coil
L304	RTF-013	Trap coil
L305	RTD-014	Dummy coil
L306	RTD-014	Dummy coil

CAPACITORS

Symbol	Part No.	Description		
C301	CEA 4R7P 35	Electrolytic	4.7	35V
C302	CEA 4R7P 35	Electrolytic	4.7	35V
C303	CCDSL 470K 50	Ceramic	47p	50V
C304	CCDSL 470K 50	Ceramic	47p	50V
C305	CEA 470P 10	Electrolytic	47	10V
C306	CEA 470P 10	Electrolytic	47	10V
C307	CQMA 823K 50	Mylar	0.082	50V
C308	CQMA 823K 50	Mylar	0.082	50V
C309	CEA 2R2P 50	Electrolytic	2.2	50V
C310	CEA 2R2P 50	Electrolytic	2.2	50V
C311	RCE-014	Styrol	470p	50V
C312	RCE-014	Styrol	470p	50V
C313	CEA 101P 35	Electrolytic	100	35V
C314	CEA 101P 35	Electrolytic	100	35V
C315	CEA 220P 35	Electrolytic	22	35V
C316	CQMA 104K 50	Mylar	0.1	50V
C317	CQSA 332J 125	Styrol	0.0033	125V
C318	CQSA 271J 250	Styrol	270p	250V
C319	RCE-003	Styrol	100p	50V
C320	RCE-003	Styrol	100p	50V
C321	CQMA 104K 50	Mylar	0.1	50V
C322	CEA 471P 35	Electrolytic	470	35V
C323	CKDYF 473Z 50	Ceramic	0.047	50V
C324	CCDSL 101K 50	Ceramic	100p	50V
C325	CEA 331P 50	Electrolytic	330	50V
C326	CEA 471P 63	Electrolytic	470	63V
C327	CEA 471P 63	Electrolytic	470	63V
C328	CEA 220P 16	Electrolytic	22	16V
C329	CEA 221P 16	Electrolytic	220	16V
C330	CEA 220P 35	Electrolytic	22	35V

RESISTORS

Symbol	Part No.	Description	
VR301	C92-857	Semi fixed	22k-B
VR302	C92-857	Semi fixed	22k-B
VR303	C81-426	Semi fixed	33k-B
VR304	C81-426	Semi fixed	33k-B

Symbol	Part No.	Description		
R301	RD¼PS 333J	Carbon film	33k	
R302	RD¼PS 333J	Carbon film	33k	
R303	RD¼PS 563J	Carbon film	56k	
R304	RD¼PS 563J	Carbon film	56k	
R305	RD¼PS 152J	Carbon film	1.5k	
R306	RD¼PS 152J	Carbon film	1.5k	
R307	RD¼PS 104J	Carbon film	100k	
R308	RD¼PS 104J	Carbon film	100k	
R309	RD¼PS 392J	Carbon film	3.9k	
R310	RD¼PS 392J	Carbon film	3.9k	
R311	RD¼PS 271J	Carbon film	270	
R312	RD¼PS 271J	Carbon film	270	
R313	RD¼PS 334J	Carbon film	330k	
R314	RD¼PS 334J	Carbon film	330k	
R315	RD¼PS 333J	Carbon film	33k	
R316	RD¼PS 333J	Carbon film	33k	
R317	RD¼PS 202J	Carbon film	2k	
R318	RD¼PS 202J	Carbon film	2k	
R319	RD¼PS 622J	Carbon film	6.2k	
R320	RD¼PS 622J	Carbon film	6.2k	
R321	RD¼PSF 331J	Carbon film	330	
R322	RD¼PSF 331J	Carbon film	330	
R323	RS1P 561J	Metal oxide	560	1W
R324	RS1P 561J	Metal oxide	560	1W
R325	RD¼PS 154J	Carbon film	150k	
R326	RD¼PS 473J	Carbon film	47k	
R327	RD¼PS 470J	Carbon film	47	
R328	RD¼PS 183J	Carbon film	18k	
R329	RD¼PS 392J	Carbon film	3.9k	
R330	RD¼PS 223J	Carbon film	22k	
R331	RD¼PS 683J	Carbon film	68k	
R332	RD¼PS 332J	Carbon film	3.3k	
R333	RD¼PS 112J	Carbon film	1.1k	
R334	RD¼PS 332J	Carbon film	3.3k	
R335	RD¼PS 152J	Carbon film	1.5k	
R336	RS1P 222J	Carbon film	2.2k	1W
R338	RD¼PS 332J	Carbon film	3.3k	

SEMICONDUCTORS

Symbol	Part No.	Description
Q301	2SC1344-D or E	Transistor
Q302	2SC1344-D or E	Transistor
Q303	2SC1213-B or C	Transistor
Q304	2SC1213-B or C	Transistor
Q305	2SD526-0	Transistor
Q306	2SD526-0	Transistor
Q307	2SD526-0 or Y	Transistor
Q308	2SC945-P or 2SC945-Q	Transistor

Symbol	Part No.	Description
D301	W06B	Diode
D302	W06B	Diode
D303	W06B	Diode
D304	MI-152	Diode
D305	MI-152R	Diode
ZD301	WZ-071	Zener Diode
TH301	D33A	Thermistor

OTHERS

Symbol	Part No.	Description
	RNF-065	Heat Sink
	AKH-002	Tr socket
	REE-051	Insulator spacer
RY301	RSP-018	Relay
RY302	RSP-018	Relay

List of Changed Parts for Factory Modification

Symbol	Description	Part No.

2.7 PLAYBACK AMPLIFIER ASSEMBLY (RWF-080)

Parts List

TRANSFORMERS

Symbol	Part No.	Description
T101	RTV-009	Matching transformer
T102	RTV-009	Matching transformer

CAPACITORS

Symbol	Part No.	Description		
C101	CEA 4R7P 35	Electrolytic	4.7	35V
C102	CEA 4R7P 35	Electrolytic	4.7	35V
C103	CEA 4R7P 35	Electrolytic	4.7	35V
C104	CEA 4R7P 35	Electrolytic	4.7	35V
C105	CEA 4R7P 35	Electrolytic	4.7	35V
C106	CEA 4R7P 35	Electrolytic	4.7	35V
C107	CEA 010P 50	Electrolytic	1	50V
C108	CEA 010P 50	Electrolytic	1	50V
C111	CCDSL 220K 50	Ceramic	22p	50V
C112	CCDSL 220K 50	Ceramic	22p	50V
C113	CEA 4R7P 35	Electrolytic	4.7	35V
C114	CEA 4R7P 35	Electrolytic	4.7	35V
C115	CEA 4R7P 35	Electrolytic	4.7	35V
C116	CEA 4R7P 35	Electrolytic	4.7	35V
C117	CEA 220P 35	Electrolytic	22	35V
C118	CEA 220P 35	Electrolytic	22	35V
C119	CEA 4R7P 35	Electrolytic	4.7	35V
C120	CEA 221P 35	Electrolytic	220	35V
C121	CEA 220P 35	Electrolytic	22	35V
C122	CEA 100P 35	Electrolytic	10	35V
C123	CKDYF 473Z 50	Ceramic	0.047	50V
C124	CKDYF 473Z 50	Ceramic	0.047	50V
C125	CEA 100P 35	Electrolytic	10	35V
C126	CEA 100P 35	Electrolytic	10	35V
C127	CEA 4R7P 35	Electrolytic	4.7	35V
C128	CEA 4R7P 35	Electrolytic	4.7	35V
C129	CKDYF 473Z 50	Ceramic	0.047	50V
C130	CEA 100P 16	Electrolytic	10	16V
C131	CEA 2R2P 50	Electrolytic	2.2	50V
C132	CEA 2R2P 50	Electrolytic	2.2	50V
C133	CEA 220P 10	Electrolytic	22	10V
C134	CEA 220P 10	Electrolytic	22	10V

RESISTORS

Symbol	Part No.	Description	
VR101	C92-857	Semi-fixed	22k-B
VR102	C92-857	Semi-fixed	22k-B
VR103	C92-857	Semi-fixed	22k-B
VR104	C92-857	Semi-fixed	22k-B
VR105	C81-426	Semi-fixed	33k-B
VR106	C81-426	Semi-fixed	33k-B
VR107	C81-426	Semi-fixed	33k-B
VR108	C81-426	Semi-fixed	33k-B
VR109	RCP-001	Semi-fixed	6.8k-B
VR110	RCP-001	Semi-fixed	6.8k-B
VR111	RCS-013	Variable resistor	20k-B
VR112	RCS-013	Variable resistor	20k-B
R101	RD¼PS 102J	Carbon film	1k
R102	RD¼PS 102J	Carbon film	1k
R103	RD¼PS 102J	Carbon film	1k
R104	RD¼PS 102J	Carbon film	1k
R105	RD¼PS 103J	Carbon film	10k
R106	RD¼PS 103J	Carbon film	10k
R107	RD¼PS 104J	Carbon film	100k
R108	RD¼PS 104J	Carbon film	100k
R109	RD¼PS 104J	Carbon film	100k
R110	RD¼PS 104J	Carbon film	100k
R111	RD¼PS 123J	Carbon film	12k
R112	RD¼PS 123J	Carbon film	12k
R113	RD¼PS 224J	Carbon film	220k
R114	RD¼PS 224J	Carbon film	220k
R115	RD¼PS 153J	Carbon film	15k
R116	RD¼PS 153J	Carbon film	15k
R117	RD¼PS 123J	Carbon film	12k
R118	RD¼PS 123J	Carbon film	12k
R119	RD¼PS 474J	Carbon film	470k
R120	RD¼PS 474J	Carbon film	470k
R121	RD¼PS 473J	Carbon film	47k
R122	RD¼PS 473J	Carbon film	47k
R123	RD¼PS 393J	Carbon film	39k
R124	RD¼PS 393J	Carbon film	39k
R125	RD¼PS 471J	Carbon film	470
R126	RD¼PS 471J	Carbon film	470
R127	RD¼PS 332J	Carbon film	3.3k
R128	RD¼PS 332J	Carbon film	3.3k
R131	RD¼PS 102J	Carbon film	1k
R132	RD¼PS 102J	Carbon film	1k
R133	RD¼PS 513J	Carbon film	51k
R134	RD¼PS 513J	Carbon film	51k
R135	RD¼PS 102J	Carbon film	1k
R136	RD¼PS 102J	Carbon film	1k
R137	RS1P 102J	Metal oxide	1k 1W
R138	RS1P 102J	Metal oxide	1k 1W
R139	RD¼PS 153J	Carbon film	15k
R140	RD¼PS 153J	Carbon film	15k
R141	RD¼PS 102J	Carbon film	1k
R142	RD¼PS 102J	Carbon film	1k
R143	RD¼PS 104J	Carbon film	100k
R144	RD¼PS 104J	Carbon film	100k
R145	RD¼PSF 331J	Carbon film	330
R146	RD¼PSF 331J	Carbon film	330
R147	RD¼PS 473J	Carbon film	47k
R148	RD¼PS 152J	Carbon film	1.5k
R149	RD¼PS 473J	Carbon film	47k
R150	RD¼PS 473J	Carbon film	47k
R151	RD¼PS 273J	Carbon film	27k
R152	RD¼PS 273J	Carbon film	27k
R153	RD¼PS 393J	Carbon film	39k
R154	RD¼PS 221J	Carbon film	220
R155	RD¼PS 104J	Carbon film	100k
R156	RD¼PS 393J	Carbon film	39k
R157	RD¼PS 121J	Carbon film	120
R158	RD¼PS 473J	Carbon film	47k
R159	RD¼PS 122J	Carbon film	1.2k
R160	RD¼PS 222J	Carbon film	2.2k
R161	RD¼PS 104J	Carbon film	100k
R162	RD¼PS 104J	Carbon film	100k
R163	RD¼PS 473J	Carbon film	47k
R164	RD¼PS 473J	Carbon film	47k
R165	RD¼PS 824J	Carbon film	820k
R166	RD¼PS 103J	Carbon film	10k
R167	RD¼PS 103J	Carbon film	10k
R168	RD¼PS 103J	Carbon film	10k
R169	RD¼PS 680J	Carbon film	68
R170	RD¼PS 680J	Carbon film	68

SEMICONDUCTORS

Symbol	Part No.	Description
Q101	2SC945-P or Q	Transistor
Q102	2SC945-P or Q	Transistor
Q103	2SC945-P or Q	Transistor
Q104	2SC945-P or Q	Transistor
Q105	2SC945-P or Q	Transistor
Q106	2SC945-P or Q	Transistor
Q107	2SC1344-D or E	Transistor
Q108	2SC1344-D or E	Transistor
Q109	2SA721-T or U	Transistor
Q110	2SA721-T or U	Transistor
Q111	2SC1213-B or C	Transistor
Q112	2SC1213-B or C	Transistor
Q113	2SC828-R or S	Transistor
Q114	2SC828-R or S	Transistor
Q115	2SA564A-R or S	Transistor
Q116	2SC945-P or Q	Transistor
Q117	2SC945-P or Q	Transistor
Q118	2SC945-P or Q	Transistor
D101	1S2473	Diode
D102	1S2473	Diode
D103	1S2473	Diode
D104	1S2473	Diode
D105	1S2473	Diode
D106	1S2473	Diode
D107	1S2473	Diode
D108	1S2473	Diode
D109	1N34A	Diode
D110	1N34A	Diode
D111	1N34A	Diode
D112	1N34A	Diode

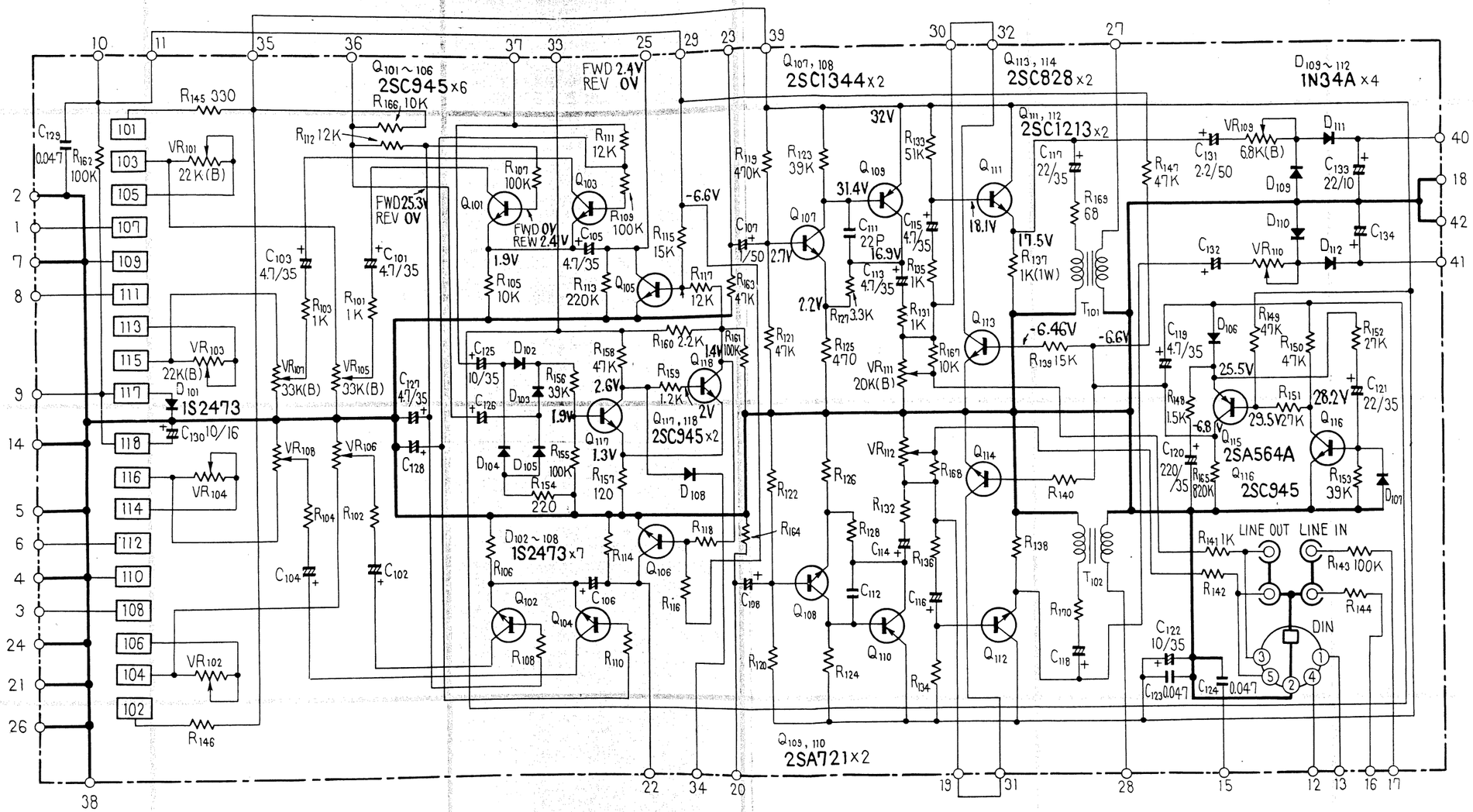
OTHERS

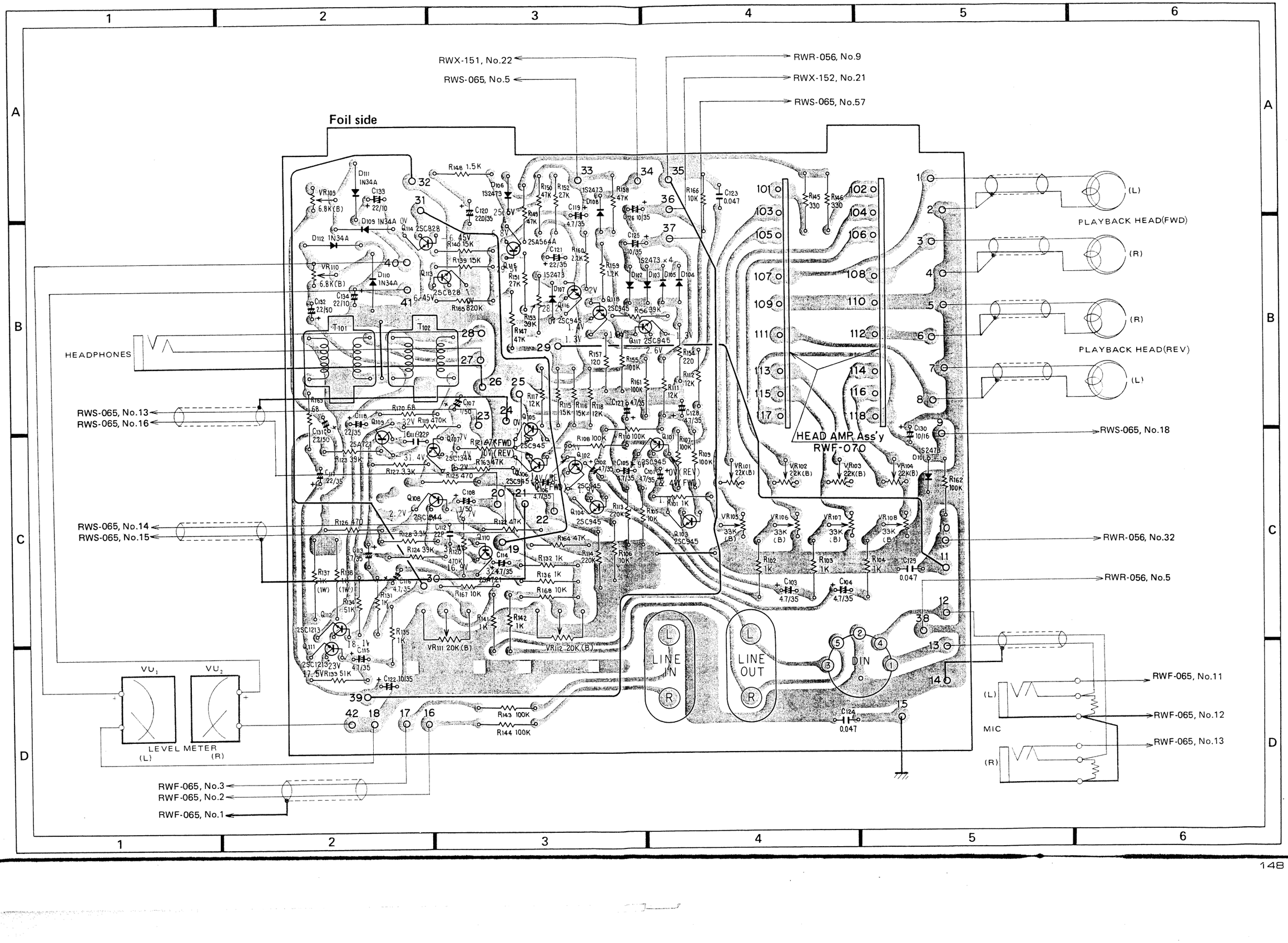
Symbol	Part No.	Description
	RWF-070	Head amplifier assembly
	RKP-030	DIN connector socket (5P)
	RKB-011	Terminal (INPUT, OUTPUT)

List of Changed Parts for Factory Modification

Symbol	Description	Part No.

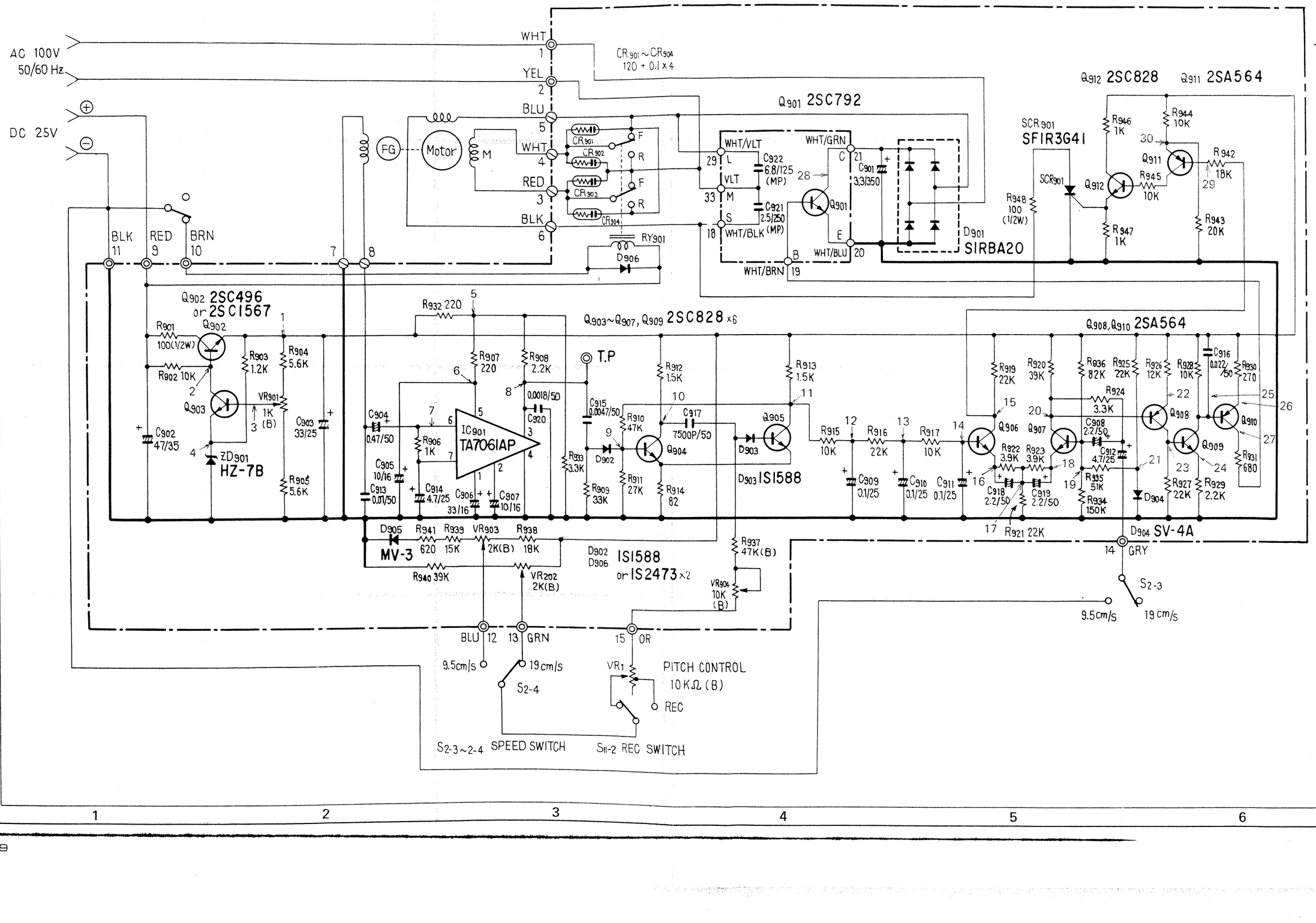
Playback Amplifier Assembly (RWF-080)



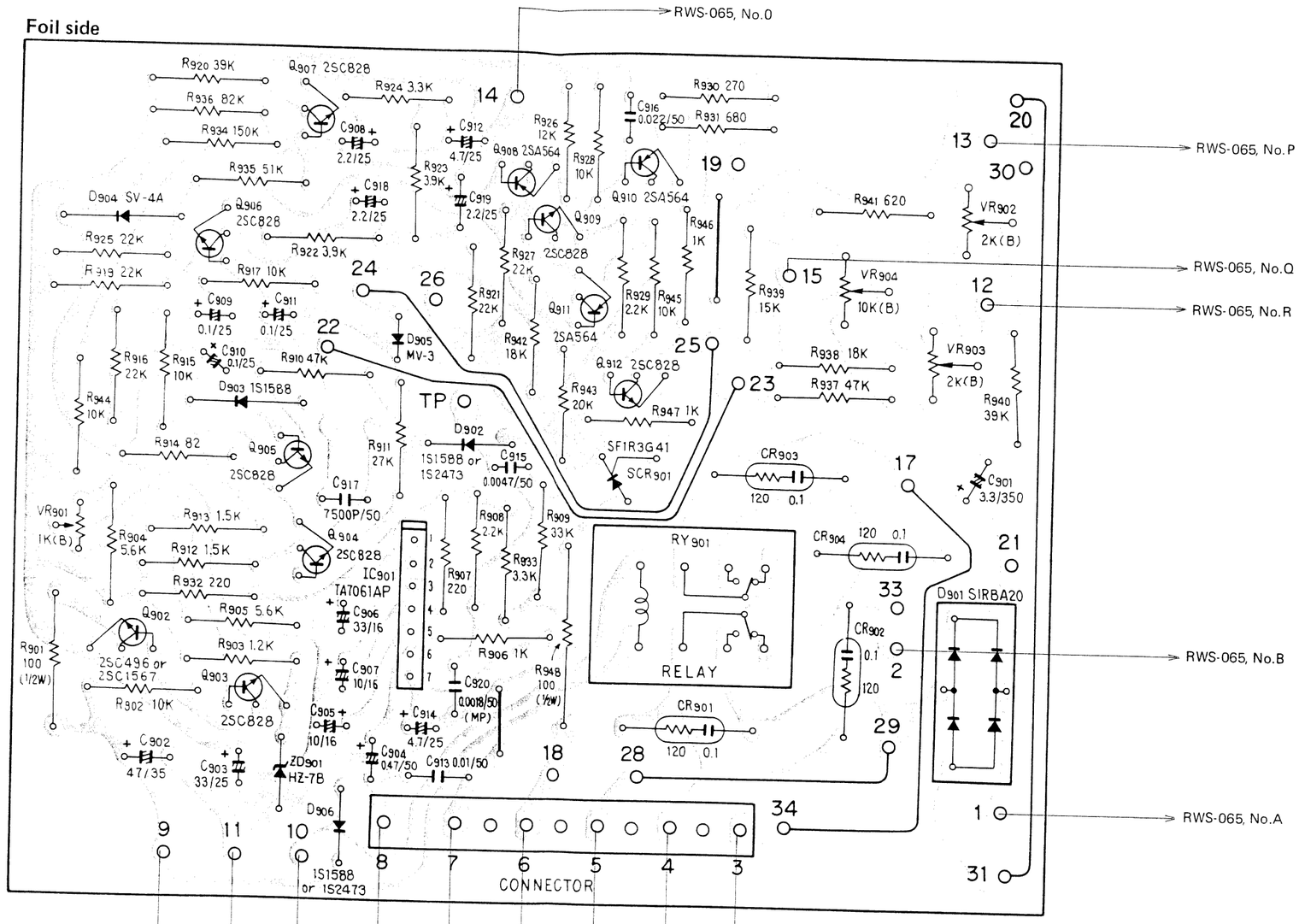

Foil side
RWX-151, No.22
RWS-065, No.5
RWR-056, No.9
RWX-152, No.21
RWS-065, No.57
HEADPHONES
RWS-065, No.13
RWS-065, No.16
RWS-065, No.14
RWS-065, No.15
RWF-065, No.3
RWF-065, No.2
RWF-065, No.1
LEVEL METER
(L) (R)
HEAD AMP Ass'y
RWF-070
PLAYBACK HEAD(FWD)
PLAYBACK HEAD(REV)
(L)
(R)
RWS-065, No.18
RWR-056, No.32
RWR-056, No.5
LINE IN
LINE OUT
DIN
MIC
RWF-065, No.11
RWF-065, No.12
RWF-065, No.13

2.8 SERVO AMPLIFIER ASSEMBLY (RWG-069)

NOTE:
The voltage at each measure points are indicated on page 151.



Foil side


RWS-065, No.0
RWS-065, No.P
RWS-065, No.Q
RWS-065, No.R
RWS-065, No.B
RWS-065, No.A
RWS-065, No.E
RWS-065, No.G
RWS-065, No.F
R920 39K
Q907 2SC828
R924 3.3K
R936 82K
R934 150K
C908 2.2/25
C912 4.7/25
R926 12K
R928 10K
C916 0.022/50
R930 270
R931 680
Q908 2SA564
Q910 2SA564
R935 5.1K
R923 3.9K
C918 2.2/25
C919 2.2/25
Q909
D904 SV-4A
Q906 2SC828
R925 22K
R922 3.9K
R919 22K
R927 22K
2SC828
R941 620
VR902 2K(B)
R946 1K
R917 10K
R921 22K
R929 2.2K
R945 10K
R939 15K
VR904 10K(B)
C909 0.1/25
C911 0.1/25
Q911 2SA564
R916 22K
R915 10K
C910 0.1/25
R910 47K
D905 MV-3
R942 18K
R938 18K
VR903 2K(B)
R944 10K
D903 1S1588
R943 20K
Q912 2SC828
R947 1K
R937 47K
R940 39K
TP
D902 1S1588 or 1S2473
C915 0.0047/50
SF1R3G41
SCR901
CR903 120 0.1
R914 82
Q905 2SC828
R911 27K
C917 7500P/50
C901 3.3/350
VR901 1K(B)
R913 1.5K
R904 5.6K
R912 1.5K
Q904 2SC828
IC901 TA7061AP
R908 2.2K
R909 33K
R907 220
R933 3.3K
RY901
RELAY
CR904 120 0.1
R932 220
R905 5.6K
C906 33/16
Q902 2SC496 or 2SC1567
R903 1.2K
R906 1K
R948 100 (½W)
CR902 0.1 120
D901 SIRBA20
R901 100 (1/2W)
R902 10K
Q903 2SC828
C907 10/16
C920 0.0018/50 (MP)
CR901 120 0.1
C905 10/16
C914 4.7/25
C902 47/35
C903 33/25
ZD901 HZ-7B
C904 0.47/50
C913 0.01/50
D906 1S1588 or 1S2473
CONNECTOR
M
C.M
FG
S
CM: Capstan motor
FG: Frequency generator

The Measurement Voltage of Servo Amplifier (RWG-069)

- The number of measurement points are indicated on page 149.
- The motor is non load situation.
- Prepare the high input impedance meter for measure the points 13 ~ 22.

Measurement point	Measurement Voltage (V)
1	15.0
2	15.6
3	7.7
4	7.0
5	10.8
6	7.6
7	2.0 (DC ingredient)
8	Fig. 18
9	Fig. 19
10	Fig. 20
11	Fig. 21
12	Fig. 22
13	6.1 (DC ingredient)
14	6.1 (DC ingredient)
15	10.8
16	5.6
17	4.8
18	4.9
19	5.5
20	14.1
21	1.42
22	14.8
23	0.7 (0.66)
24	0.14 (0.11)
25	14.6 (14.7)
26	0.71 (0.56)
27	15
28	Fig. 23
29	10.8
30	10.1

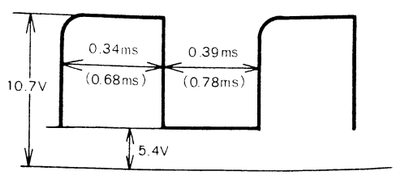


Fig. 18

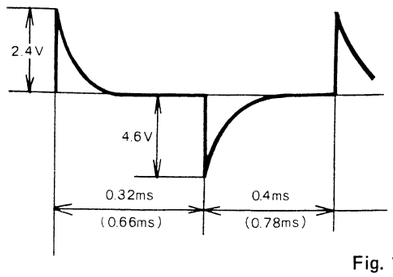


Fig. 19

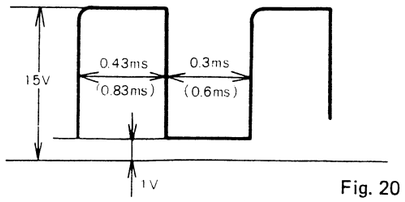


Fig. 20

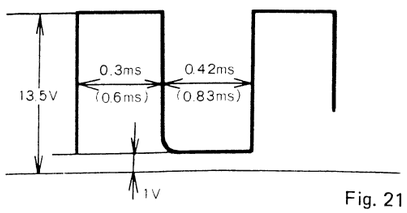


Fig. 21

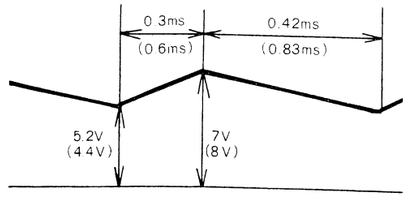


Fig. 22

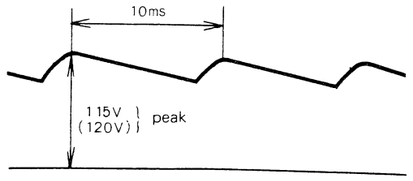


Fig. 23

Parts List of Servo Amplifier Assembly (RWG-069)

CAPACITORS

Symbol	Part No.	Description		
C901	RCH-029	Electrolytic	3.3	350V
C902	CEA 470P 35	Electrolytic	47	35V
C903	CEA 330P 25	Electrolytic	33	25V
C904	CEA 0R47P 50	Electrolytic	0.47	50V
C905	CEA 100P 16	Electrolytic	10	16V
C906	CEA 330P 16	Electrolytic	33	16V
C907	CEA 100P 16	Electrolytic	10	16V
C908	RCH-032	Electrolytic	2.2	50V
C909	CSSA 0R1M 25	Electrolytic	0.1	25V
C910	CSSA 0R1M 25	Electrolytic	0.1	25V
C911	CSSA 0R1M 25	Electrolytic	0.1	25V
C912	CEA 4R7P 25	Electrolytic	4.7	25V
C913	CQMA 103K 50	Mylar	0.01	50V
C914	RCH-033	Electrolytic	4.7	25V
C915	CQMA 472K 50	Mylar	0.0047	50V
C916	CQMA 223K 50	Mylar	0.022	50V
C917	RCE-027	Styrol	0.0075	50V
C918	RCH-032	Electrolytic	2.2	50V
C919	RCH-032	Electrolytic	2.2	50V
C920	CQMA 182K 50	Mylar	0.0018	50V
C921		Metallized paper	2.5	250V
C922		Electrolytic	6.8	125V

RESISTORS

Symbol	Part No.	Description		
VR901	RCP-036	Semi-fixed	1k-B	
VR902	RCP-034	Semi-fixed	2k-B	
VR903	RCP-034	Semi-fixed	2k-B	
VR904	RCP-035	Semi-fixed	10k-B	
R901	RD⅓PSF 101K	Carbon film	100	⅓W
R902	RD¼PSF 103K	Carbon film	10k	
R903	RD¼PS 122J	Carbon film	1.2k	
R904	RD¼PS 562J	Carbon film	5.6k	
R905	RD¼PS 562J	Carbon film	5.6k	
R906	RD¼PS 102J	Carbon film	1k	
R907	RD¼PS 221J	Carbon film	220	
R908	RD¼PS 222J	Carbon film	2.2k	
R909	RD¼PS 333J	Carbon film	33k	
R910	RD¼PS 473J	Carbon film	47k	
R911	RD¼PS 273J	Carbon film	27k	
R912	RD¼PS 152J	Carbon film	1.5k	

Symbol	Part No.	Description		
R913	RD¼PS 152J	Carbon film	1.5k	
R914	RD¼PS 820J	Carbon film	82	
R915	RD¼PS 103J	Carbon film	10k	
R916	RD¼PS 223J	Carbon film	22k	
R917	RD¼PS 103J	Carbon film	10k	
R918	----------	----------		
R919	RD¼PS 223J	Carbon film	22k	
R920	RD¼PS 393J	Carbon film	39k	
R921	RD¼PS 223J	Carbon film	22k	
R922	RD¼PS 392J	Carbon film	3.9k	
R923	RD¼PS 392J	Carbon film	3.9k	
R924	RD¼PS 332J	Carbon film	3.3k	
R925	RD¼PS 223J	Carbon film	22k	
R926	RD¼PS 123J	Carbon film	12k	
R927	RD¼PS 223J	Carbon film	22k	
R928	RD¼PS 103J	Carbon film	10k	
R929	RD¼PS 222J	Carbon film	2.2k	
R930	RD¼PS 271J	Carbon film	270	
R931	RD¼PS 681J	Carbon film	680	
R932	RD¼PS 221J	Carbon film	220	
R933	RD¼PS 332J	Carbon film	3.3k	
R934	RD¼PS 154J	Carbon film	150k	
R935	RN¼PS 513G	Metal film	51k	
R936	RN¼PS 823G	Metal film	82k	
R937	RN¼PS 473G	Metal film	47k	
R938	RN¼PS 183G	Metal film	18k	
R939	RN¼PS 153G	Metal film	15k	
R940	RN¼PS 393G	Metal film	39k	
R941	RD¼PS 621J	Carbon film	620	
R942	RD¼PS 183J	Carbon film	18k	
R943	RD¼PS 203J	Carbon film	20k	
R944	RD¼PS 103J	Carbon film	10k	
R945	RD¼PS 103J	Carbon film	10k	
R946	RD¼PS 102J	Carbon film	1k	
R947	RD¼PS 102J	Carbon film	1k	
R948	RD½PSF. 101K	Carbon film	100	½W

SEMICONDUCTORS

Symbol	Part No.	Description
IC901	TA 7061AP	IC
Q901	2SC792	Transistor
Q902	2SC496-Y or O or 2SC1567-R or S	Transistor
Q903	2SC828-R	Transistor
Q904	2SC828-R	Transistor
Q905	2SC828-R	Transistor
Q906	2SC828-R	Transistor
Q907	2SC828-R	Transistor
Q908	2SA564-Q	Transistor
Q909	2SC828-R	Transistor
Q910	2SA564-Q	Transistor
Q911	2SA564-Q	Transistor
Q912	2SC828-R	Transistor
D901	S1RBA20	Diode
D902	1S1588 or 1S2473	Diode
D903	1S1588	Diode
D904	SV-4A	Diode
D905	MV-3	Diode
D906	1S1588 or 1S2473	Diode
ZD901	HZ7B	Zener Diode
SCR961	SFIR3G41	Thyristor

OTHERS

Symbol	Part No.	Description
RY901	RSR-021	Relay
CR901	RWX-030	Spark killer
CR902	RWX-030	Spark killer
CR903	RWX-030	Spark killer
CR904	RWX-030	Spark killer
	RNF-224	Heat sink
	AKH-001	Tr socket
	RKP-019	Connector socket assembly
	RKP-020	Connector
	REC-247	Insulator sheet

CONTRAST OF ASSEMBLIES

Assembly	RT-701/KCU		RT-707/KCU		RT-707/HG	RT-707 D, D/G
	Original model	Improved model "▲"	Original model	Improved model "▲"		
Control assembly	RWG-070	RWG-070	RWG-070	RWG-070	RWG-082	RWG-070
Function switch assembly	RWS-051	RWS-051	RWS-052	RWS-052	RWS-066	RWS-052
Indicator assembly	RWX-142	RWX-142	RWX-142	RWX-142	RWX-142	RWX-142
Connector assembly L	RWX-146	RWX-171	RWX-151	RWX-151	RWX-151	RWX-151
Connector assembly R	RWX-147	RWX-172	RWX-152	RWX-152	RWX-152	RWX-152
Servo amplifier assembly	RWG-068	RWG-068	RWG-076	RWG-076	RWG-069	RWG-069
Power and oscillation assembly	RWR-054	RWR-059	RWR-053	RWR-058	RWR-056	RWR-050
Playback amplifier assembly	RWF-064	RWF-081	RWF-069	RWF-080	RWF-080	RWF-078
Fuse assembly	RWX-170	RWX-170	RWX-141	RWX-170	RWX-185	.....
MIC amplifier assembly	RWF-065	RWF-065	RWF-065	RWF-065	RWF-065	RWF-065
Switch assembly	RWS-062 (KU) RWS-063 (KC)	RWS-068 (KU) RWS-067 (KC)	RWS-058 (KU) RWS-059 (KC)	RWS-058 (KU) RWS-059 (KC)	RWS-065	RWS-053
Terminal assembly	.....	.....	.....	.....	.....	RWX-174

PPHU FOX L...
ul.Dębowa 3...
tel.71/315 2119 ...
NIP 694-151-45-27 Regon 390640540
mBank 61 1140 2004 0000 3902 5893 0333
http://e-schematy.pl
foxel@foxel.com.pl